

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: June 18, 2000, 19:10:45 ; Search time 39.33 seconds  
(without alignments)  
59.490 Million cell updates/sec

Title: PCR-US97-18348-1

Sequence: 1 CAGCGTGGCGCATCCTTC 18

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 230463 seqs, 64992525 residues

Total number of hits satisfying chosen parameters: 328916

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Listing first 45 summaries

Database : Issued\_Patents\_NA:\*  
1: /cgn2\_6/ptodata/2/lna/5A.COMB.seq:\*  
2: /cgn2\_6/ptodata/2/lna/5B.COMB.seq:\*  
3: /cgn2\_6/ptodata/2/lna/5C.COMB.seq:\*  
4: /cgn2\_6/ptodata/2/lna/5D.COMB.seq:\*  
5: /cgn2\_6/ptodata/2/lna/5.COMB.seq:\*  
6: /cgn2\_6/ptodata/2/lna/5.PCTUS.COMB.seq:\*  
7: /cgn2\_6/ptodata/2/lna/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18	100.0	20	2	US-08-217-082A-1
2	18	100.0	20	2	US-08-217-082A-7
3	18	100.0	20	3	US-08-465-485A-1
4	18	100.0	20	3	US-08-465-485A-7
5	18	100.0	20	5	US-09-080-285-1
6	18	100.0	20	5	US-09-080-285-7
7	18	100.0	35	2	US-08-217-082A-2
8	18	100.0	35	3	US-08-465-485A-2
9	18	100.0	35	5	US-09-080-285-2
10	16	88.9	17	2	US-08-217-082A-10
11	16	88.9	17	2	US-08-217-082A-11
12	13	72.2	17	2	US-08-217-082A-9
13	13	72.2	17	2	US-08-217-082A-12
14	13	72.2	18	3	US-08-217-082A-17
15	13	72.2	18	3	US-08-465-485A-17
16	13	72.2	18	3	US-08-465-485A-24
17	13	72.2	18	3	US-09-080-285-17
18	13	72.2	18	5	US-09-080-285-24
19	13	72.2	27	1	US-08-410-804-13
20	13	72.2	27	2	US-08-607-269-8
21	13	72.2	27	2	US-08-259-514-13
22	13	72.2	27	3	US-08-858-311-13
23	13	72.2	27	6	PCT-US95-04600-8
24	12.2	67.8	30	6	PCT-US94-10257A-37
25	11.8	65.6	21	4	US-08-837-190C-1
26	11.8	65.6	21	4	US-08-837-190C-11
27	11.8	65.6	31	2	US-08-647-584-44

C 28	11.8	65.6	45	1	US-07-795-859B-36	Sequence 36, Appl
C 29	11.8	65.6	45	1	US-08-457-616-36	Sequence 36, Appl
C 30	11.8	65.6	48	2	US-08-741-881-41	Sequence 41, Appl
C 31	11.8	65.6	48	2	US-08-739-158-41	Sequence 41, Appl
C 32	11.8	65.6	48	3	US-08-739-167-41	Sequence 41, Appl
C 33	11.8	65.6	48	5	US-08-404-796-41	Sequence 41, Appl
C 34	11.8	65.6	48	5	US-08-931-869-41	Sequence 41, Appl
C 35	11.4	63.3	25	6	PCT-US93-01857-3	Sequence 3, Appl
C 36	11.4	63.3	33	5	US-08-650-726-1	Sequence 1, Appl
C 37	11.2	62.2	47	6	PCT-US95-13552-16	Sequence 16, Appl
C 38	11.2	62.2	47	6	PCT-US95-13552-18	Sequence 16, Appl
C 39	11	61.1	19	7	5276019-8	Patent No. 5276019
C 40	11	61.1	31	2	US-08-726-136-19	Sequence 19, Appl
C 41	10.8	60.0	17	1	US-08-233-030-15	Sequence 15, Appl
C 42	10.8	60.0	21	5	US-08-804-439A-56	Sequence 56, Appl
C 43	10.8	60.0	21	5	US-08-720-229-56	Sequence 56, Appl
C 44	10.8	60.0	35	1	US-07-783-861C-19	Sequence 19, Appl
C 45	10.8	60.0	35	1	US-07-783-861C-22	Sequence 22, Appl

## ALIGNMENTS

RESULT 1  
US-08-217-082A-1  
; Sequence 1, Application US/08217082A  
; Patent No. 5734033  
; GENERAL INFORMATION:  
; APPLICANT: Reed, John  
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR INHIBITING THE  
; TITLE OF INVENTION: GROWTH OF CELLS EXPRESSING THE HUMAN BCL-2 GENE  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,  
; STREET: 224 Airport Parkway  
; CITY: San Jose  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 95110  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/217,082A  
; FILING DATE: 24-MAR-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/840,716  
; FILING DATE: 21-FEB-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/288,692  
; FILING DATE: 22-DEC-1988  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fortney, Andrew D.  
; REGISTRATION NUMBER: 34,600  
; REFERENCE/DOCKET NUMBER: 3335-067-55 FMC  
; TELEPHONE: (408) 436-2070  
; TELEFAX: (408) 436-2070  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: Synthetic DNA  
; ANTI-SENSE: YES  
; US-08-217-082A-1

Query Match 100.0%; Score 18; DB 2; Length 20;  
Best Local Similarity 100.0%; Pred. No. 0.24;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CAGCGTGGCCATCCTTC 18  
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Db 1 CAGCGTGGCCATCCTTC 18

RESULT 2  
US-08-217-082A-7/c

; Sequence 7, Application US/08217082A  
; Patent No. 5734033

; GENERAL INFORMATION:

; APPLICANT: Reed, John

; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR INHIBITING THE

; TITLE OF INVENTION: GROWTH OF CELLS EXPRESSING THE HUMAN BCL-2 GENE

; NUMBER OF SEQUENCES: 17

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: P.C.

; STREET: 224 Airport Parkway

; CITY: San Jose

; STATE: California

; COUNTRY: U.S.A.

; ZIP: 95110

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/217,082A

; FILING DATE: 24-MAR-1994

; CLASSIFICATION: 435

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: US 07/840,716

; FILING DATE: 21-FEB-1992

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: US 07/288,692

; FILING DATE: 22-DEC-1988

; ATTORNEY/AGENT INFORMATION:

; NAME: Fortney, Andrew D.

; REGISTRATION NUMBER: 34,600

; REFERENCE/DOCKET NUMBER: 3335-067-55 FWC

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (408) 436-2070

; TELEFAX: (408) 436-2075

; INFORMATION FOR SEQ ID NO: 7:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 20 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: other nucleic acid

; DESCRIPTION: Synthetic DNA

; ANTI-SENSE: NO

; US-08-217-082A-7

Query Match 100.0%; Score 18; DB 2; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.24;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 20 CAGCGTGGCCATCCTTC 3

RESULT 3

US-08-465-485A-1  
; Sequence 1, Application US/08465485A

; Patent No. 5831066

; GENERAL INFORMATION:

; APPLICANT: Reed, John

; TITLE OF INVENTION: Regulation of bcl-2 Gene Expression

; NUMBER OF SEQUENCES: 28

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: P.C.

; STREET: 1755 S. Jefferson Davis Hwy., Suite 400

; CITY: Arlington

; STATE: Virginia

; COUNTRY: U.S.A.

; ZIP: 22202

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/465,485A

; FILING DATE: 05-JUN-1995

; CLASSIFICATION: 514

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: US 08/124,256

; FILING DATE: 20-SEP-1993

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: US 07/840,716

; FILING DATE: 21-FEB-1992

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: US 07/288,692

; FILING DATE: 22-DEC-1988

; ATTORNEY/AGENT INFORMATION:

; NAME: Fortney, Andrew D.

; REGISTRATION NUMBER: 34,600

; REFERENCE/DOCKET NUMBER: 3335-070-55 CONT

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (408) 436-2070

; TELEFAX: (408) 436-2075

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 20 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

; ANTI-SENSE: YES

; US-08-465-485A-1

Query Match 100.0%; Score 18; DB 3; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.24;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CAGCGTGGCCATCCTTC 18  
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Db 1 CAGCGTGGCCATCCTTC 18

RESULT 4

US-08-465-485A-7/c

; Sequence 7, Application US/08465485A

; Patent No. 5831066

; GENERAL INFORMATION:

; APPLICANT: Reed, John

; TITLE OF INVENTION: Regulation of bcl-2 Gene Expression

; NUMBER OF SEQUENCES: 28

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: P.C.

; STREET: 1755 S. Jefferson Davis Hwy., Suite 400

; CITY: Arlington

; STATE: Virginia

; COUNTRY: U.S.A.

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1      ZIP: 22202
2      COMPUTER READABLE FORM:
3      MEDIUM TYPE: Floppy disk
4      COMPUTER: IBM PC compatible
5      OPERATING SYSTEM: PC-DOS/MS-DOS
6      SOFTWARE: Patent In Release #1.0, Version
7      CURRENT APPLICATION DATA:
8      APPLICATION NUMBER: US/08/465,485A
9      FILING DATE: 05-JUN-1995
10     CLASSIFICATION: 514
11     PRIOR APPLICATION DATA:
12     APPLICATION NUMBER: US 08/124,256
13     FILING DATE: 20-SEP-1993
14     PRIOR APPLICATION DATA:
15     APPLICATION NUMBER: US 07/840,716
16     FILING DATE: 21-FEB-1992
17     PRIOR APPLICATION DATA:
18     APPLICATION NUMBER: US 07/288,692
19     FILING DATE: 22-DEC-1988
20     ATTORNEY/AGENT INFORMATION:
21     NAME: Fortney, Andrew D.
22     REGISTRATION NUMBER: 34,600
23     REFERENCE/DOCKET NUMBER: 3335-070-55 CONT
24     TELECOMMUNICATION INFORMATION:
25     TELEPHONE: (406) 436-2070
26     TELEFAX: (408) 436-2075
27     INFORMATION FOR SEQ ID NO: 7:
28     SEQUENCE CHARACTERISTICS:
29     LENGTH: 20 base pairs
30     TYPE: nucleic acid
31     STRANDEDNESS: single
32     TOPOLOGY: linear
33     MOLECULE TYPE: DNA (genomic)
34     ANTI-SENSE: NO
35     OS-08-465-485A-7

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Query Match	100.0%;	Score 18;	DB 3;	Length 20;
Best Local Similarity	100.0%;	Pred. No. 0.24;		
Matches	18;	Conservative	0;	Mismatches
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QY      1 CAGCGTGGCCATCCTTC 18
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Db     20 CAGCGTGGCCATCCTTC 3

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US-09-080-285-1  
Sequence 1, Application US/09080285  
Patent No. 6040181  
GENERAL INFORMATION:  
APPLICANT: Reed, John  
TITLE OF INVENTION: Regulation of bcl-2 Gene Expression  
NUMBER OF SEQUENCES: 29  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: OBLON, SPIVAK, MCCLIELLAND, MAIER & NEUSTADT  
ADDRESSEE: P.C.  
STREET: 1755 S. Jefferson Davis Hwy., Suite 400  
CITY: Arlington  
STATE: Virginia  
COUNTRY: U.S.A.  
ZIP: 22202  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/080,285  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/465,485

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1      FILING DATE: 05-JUN-1995
2
3      PRIOR APPLICATION DATA:
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5      APPLICATION NUMBER: US 08/124,256
6
7      FILING DATE: 20-SEP-1993
8
9      PRIOR APPLICATION DATA:
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11     APPLICATION NUMBER: US 07/840,716
12
13     FILING DATE: 21-FEB-1992
14
15     PRIOR APPLICATION DATA:
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17     APPLICATION NUMBER: US 07/288,692
18
19     FILING DATE: 22-DEC-1988
20
21     ATTORNEY/AGENT INFORMATION:
22
23     NAME: Fortney, Andrew D.
24
25     REGISTRATION NUMBER: 34,600
26
27     REFERENCE/DOCKET NUMBER: 3335-070-55 CONT
28
29     TELECOMMUNICATION INFORMATION:
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31     TELEPHONE: (408) 436-2070
32
33     TELEFAX: (408) 436-2075
34
35     INFORMATION FOR SEQ ID NO: 1:
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37     SEQUENCE CHARACTERISTICS:
38
39     LENGTH: 20 base pairs
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41     TYPE: nucleic acid
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43     STRANDEDNESS: single
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45     TOPOLOGY: linear
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47     MOLECULE TYPE: DNA (genomic)
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49     ANTI-SENSE: YES
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51     US-09-080-285-1

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Query Match	100.0%;	Score 18;	DB 5;	Length 20;
Best Local Similarity	100.0%;	Pred. No. 0.24;		
Matches 18;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

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Db	1	CAGCGTGC	GCATCCTTC	18

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FILING DATE: 22-DEC-1988  
ATTORNEY/AGENT INFORMATION:  
NAME: Fortney, Andrew D.  
REGISTRATION NUMBER: 34,600  
REFERENCE/DOCKET NUMBER: 3335-070-55 CONT  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (408) 436-2070  
TELEFAX: (408) 436-2075  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
ANTI-SENSE: NO  
US-09-080-285-7

Query Match 100.0%; Score 18; DB 5; Length 20;  
Best Local Similarity 100.0%; Pred. No. 0.24;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACGTCGCCCATCCTTC 18  
|||||

Db 20 CACGTCGCCCATCCTTC 3

RESULT 7  
US-08-217-082A-2/C  
Sequence 2, Application US/08217082A  
Patent No. 5734033  
GENERAL INFORMATION:  
APPLICANT: Reed, John  
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR INHIBITING THE  
TITLE OF INVENTION: GROWTH OF CELLS EXPRESSING THE HUMAN BCL-2 GENE  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: OBILON, SPIVAK, MCCLELLAND, MATER & NEUSTADT,  
ADDRESSEE: P.C.  
STREET: 224 Airport Parkway  
CITY: San Jose  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 95110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/217,082A  
FILING DATE: 24-MAR-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/840,716  
FILING DATE: 21-FEB-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/288,692  
FILING DATE: 22-DEC-1988  
ATTORNEY/AGENT INFORMATION:  
NAME: Fortney, Andrew D.  
REGISTRATION NUMBER: 34,600  
REFERENCE/DOCKET NUMBER: 3335-067-55 FMC  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (408) 436-2070  
TELEFAX: (408) 436-2075  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 35 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)  
ANTI-SENSE: NO  
US-08-217-082A-2

Query Match 100.0%; Score 18; DB 2; Length 35;  
Best Local Similarity 100.0%; Pred. No. 0.26;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACGTCGCCCATCCTTC 18  
|||||

Db 30 CACGTCGCCCATCCTTC 13

RESULT 8  
US-08-465-485A-2/C  
Sequence 2, Application US/08465485A  
Patent No. 5831066  
GENERAL INFORMATION:  
APPLICANT: Reed, John  
TITLE OF INVENTION: Regulation of bcl-2 Gene Expression  
NUMBER OF SEQUENCES: 29  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: OBILON, SPIVAK, MCCLELLAND, MATER & NEUSTADT,  
ADDRESSEE: P.C.  
STREET: 1755 S. Jefferson Davis Hwy., Suite 400  
CITY: Arlington  
STATE: Virginia  
COUNTRY: U.S.A.  
ZIP: 22202  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/465,485A  
FILING DATE: 05-JUN-1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/124,256  
FILING DATE: 20-SEP-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/840,716  
FILING DATE: 21-FEB-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/288,692  
FILING DATE: 22-DEC-1988  
ATTORNEY/AGENT INFORMATION:  
NAME: Fortney, Andrew D.  
REGISTRATION NUMBER: 34,600  
REFERENCE/DOCKET NUMBER: 3335-070-55 CONT  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (408) 436-2070  
TELEFAX: (408) 436-2075  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 35 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
ANTI-SENSE: NO  
US-08-465-485A-2

Query Match 100.0%; Score 18; DB 3; Length 35;  
Best Local Similarity 100.0%; Pred. No. 0.26;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACGTCGCCCATCCTTC 18  
|||||

Db 30 CACGTCGCCCATCCTTC 13

RESULT 9  
US-09-080-285-2/C  
; Sequence 2, Application US/09080285  
; Patent No. 6040181  
; GENERAL INFORMATION:  
; APPLICANT: Reed, John  
; TITLE OF INVENTION: Regulation of bcl-2 Gene Expression  
; NUMBER OF SEQUENCES: 29  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,  
; ADDRESSEE: P.C.  
; STREET: 1755 S. Jefferson Davis Hwy., Suite 400  
; CITY: Arlington  
; STATE: Virginia  
; COUNTRY: U.S.A.  
; ZIP: 22202  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/080,285  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/465,485  
; FILING DATE: 05-JUN-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/124,256  
; FILING DATE: 20-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/840,716  
; FILING DATE: 21-FEB-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/288,692  
; FILING DATE: 22-DEC-1988  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fortney, Andrew D.  
; REGISTRATION NUMBER: 34,600  
; REFERENCE/DOCKET NUMBER: 3335-070-55 CONT  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (408) 436-2070  
; TELEFAX: (408) 436-2075  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 35 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; ANTI-SENSE: NO  
US-09-080-285-2

Query Match 100.0%; Score 18; DB 5; Length 35;  
Best Local Similarity 100.0%; Pred. No. 0.26;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACGTCGCCATCTTC 18  
DB 30 CACGTCGCCATCTTC 13

RESULT 10  
US-08-217-082A-10  
; Sequence 10, Application US/08217082A  
; Patent No. 5734033  
; GENERAL INFORMATION:  
; APPLICANT: Reed, John  
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR INHIBITING THE

; TITLE OF INVENTION: GROWTH OF CELLS EXPRESSING THE HUMAN BCL-2 GENE  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,  
; ADDRESSEE: P.C.  
; STREET: 224 Airport Parkway  
; CITY: San Jose  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 95110  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/217,082A  
; FILING DATE: 24-MAR-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/840,716  
; FILING DATE: 21-FEB-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/288,692  
; FILING DATE: 22-DEC-1988  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fortney, Andrew D.  
; REGISTRATION NUMBER: 34,600  
; REFERENCE/DOCKET NUMBER: 3335-067-55 FWC  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (408) 436-2070  
; TELEFAX: (408) 436-2075  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: Synthetic DNA  
; ANTI-SENSE: YES  
US-08-217-082A-10

Query Match 88.9%; Score 16; DB 2; Length 17;  
Best Local Similarity 100.0%; Pred. No. 2.8;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACGTCGCCATCTT 16  
DB 2 CACGTCGCCATCTT 17

RESULT 11  
US-08-217-082A-11  
; Sequence 11, Application US/08217082A  
; Patent No. 5734033  
; GENERAL INFORMATION:  
; APPLICANT: Reed, John  
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR INHIBITING THE  
; TITLE OF INVENTION: GROWTH OF CELLS EXPRESSING THE HUMAN BCL-2 GENE  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,  
; ADDRESSEE: P.C.  
; STREET: 224 Airport Parkway  
; CITY: San Jose  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 95110  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/217,082A  
FILING DATE: 24-MAR-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/840,716  
FILING DATE: 21-FEB-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/288,692  
FILING DATE: 22-DEC-1988  
ATTORNEY/AGENT INFORMATION:  
NAME: Fortney, Andrew D.  
REGISTRATION NUMBER: 34,600  
REFERENCE/DOCKET NUMBER: 3335-067-55 FWC  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (408) 436-2070  
TELEFAX: (408) 436-2075  
INFORMATION FOR SEQ ID NO: 11:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
DESCRIPTION: Synthetic DNA  
ANTI-SENSE: YES  
US-08-217-082A-11

Query Match 88.9%; Score 16; DB 2; Length 17;  
Best Local Similarity 100.0%; Pred. No. 2.8;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3 GCGTGGCCATCCTTC 18  
|||||  
DB 1 GCGTGGCCATCCTTC 16

RESULT 12  
US-08-217-082A-9  
Sequence 9, Application US/08217082A  
Patent No. 5734033  
GENERAL INFORMATION:  
APPLICANT: Reed, John  
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR INHIBITING THE  
GROWTH OF CELLS EXPRESSING THE HUMAN BCL-2 GENE  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: P.C.  
STREET: 224 Airport Parkway  
CITY: San Jose  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 95110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/217,082A  
FILING DATE: 24-MAR-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/840,716  
FILING DATE: 21-FEB-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/288,692  
FILING DATE: 22-DEC-1988  
ATTORNEY/AGENT INFORMATION:

NAME: Fortney, Andrew D.  
REGISTRATION NUMBER: 34,600  
REFERENCE/DOCKET NUMBER: 3335-067-55 FWC  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (408) 436-2070  
TELEFAX: (408) 436-2075  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
DESCRIPTION: Synthetic DNA  
ANTI-SENSE: YES  
US-08-217-082A-9

Query Match 72.2%; Score 13; DB 2; Length 17;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CAGCGTGGCCAT 13  
|||||  
DB 5 CAGCGTGGCCAT 17

RESULT 13  
US-08-217-082A-12  
Sequence 12, Application US/08217082A  
Patent No. 5734033  
GENERAL INFORMATION:  
APPLICANT: Reed, John  
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR INHIBITING THE  
GROWTH OF CELLS EXPRESSING THE HUMAN BCL-2 GENE  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: P.C.  
STREET: 224 Airport Parkway  
CITY: San Jose  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 95110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/217,082A  
FILING DATE: 24-MAR-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/840,716  
FILING DATE: 21-FEB-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/288,692  
FILING DATE: 22-DEC-1988  
ATTORNEY/AGENT INFORMATION:  
NAME: Fortney, Andrew D.  
REGISTRATION NUMBER: 34,600  
REFERENCE/DOCKET NUMBER: 3335-067-55 FWC  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (408) 436-2070  
TELEFAX: (408) 436-2075  
INFORMATION FOR SEQ ID NO: 12:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid

DESCRIPTION: Synthetic DNA  
ANTI-SENSE: YES  
US-08-217-082A-12

Query Match 72.2%; Score 13; DB 2; Length 17;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 TGGCCATCTTC 18  
|||||  
Db 1 TGGCCATCTTC 13

RESULT 14  
US-08-217-082A-17  
Sequence 17, Application US/08217082A  
Patent No. 5734033  
GENERAL INFORMATION:  
APPLICANT: Reed, John  
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR INHIBITING THE  
TITLE OF INVENTION: GROWTH OF CELLS EXPRESSING THE HUMAN BCL-2 GENE  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,  
ADDRESS: P.C.  
STREET: 224 Airport Parkway  
CITY: San Jose  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 95110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/217,082A  
FILING DATE: 24-MAR-1994  
CLASSIFICATION: 435  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US 07/840,716  
FILING DATE: 21-FEB-1992  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US 07/288,692  
FILING DATE: 22-DEC-1988  
ATTORNEY/AGENT INFORMATION:  
NAME: Fortney, Andrew D.  
REGISTRATION NUMBER: 34,600  
REFERENCE/DOCKET NUMBER: 3335-067-55 FWC  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (408) 436-2070  
TELEFAX: (408) 436-2075  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
DESCRIPTION: Synthetic DNA  
US-08-217-082A-17

Query Match 72.2%; Score 13; DB 2; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACGTCGCCCAT 13  
|||||  
Db 6 CACGTCGCCCAT 18

RESULT 15  
US-08-465-485A-17  
Sequence 17, Application US/08465485A  
Patent No. 5831066  
GENERAL INFORMATION:  
APPLICANT: Reed, John  
TITLE OF INVENTION: Regulation of bcl-2 Gene Expression  
NUMBER OF SEQUENCES: 29  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,  
ADDRESS: P.C.  
STREET: 1755 S. Jefferson Davis Hwy., Suite 400  
CITY: Arlington  
STATE: Virginia  
COUNTRY: U.S.A.  
ZIP: 22202

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/465,485A  
FILING DATE: 05-JUN-1995  
CLASSIFICATION: 514  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US 08/124,256  
FILING DATE: 20-SEP-1993  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US 07/840,716  
FILING DATE: 21-FEB-1992  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US 07/288,692  
FILING DATE: 22-DEC-1988  
ATTORNEY/AGENT INFORMATION:  
NAME: Fortney, Andrew D.  
REGISTRATION NUMBER: 34,600  
REFERENCE/DOCKET NUMBER: 3335-070-55 CONT  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (408) 436-2070  
TELEFAX: (408) 436-2075  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-465-485A-17

Query Match 72.2%; Score 13; DB 3; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACGTCGCCCAT 13  
|||||  
Db 6 CACGTCGCCCAT 18

Search completed: June 18, 2000, 20:47:49  
Job time: 5824 sec





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OM nucleic - nucleic search, using sw model

Run on: June 18, 2000, 20:30:39 ; Search time 288.74 Seconds  
(without alignments)  
-248.529 Million cell updates/sec

Title: PCT-US97-18348-1  
Perfect score: 18  
Sequence: 1 CAGCGTGGCCATCCTTC 18

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 5297623 seqs, -199338314 residues

Total number of hits satisfying chosen parameters: 915250

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Listing first 45 summaries

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63: /cgn2\_6/ptodata/2/pna/US6002C\_COMB.seq:\*  
64: /cgn2\_6/ptodata/2/pna/US6003A\_COMB.seq:\*  
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93: /cgn2\_6/ptodata/2/pna/US6017B\_COMB.seq:\*  
94: /cgn2\_6/ptodata/2/pna/US6017C\_COMB.seq:\*  
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97: /cgn2\_6/ptodata/2/pna/US6018C\_COMB.seq:\*  
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101: /cgn2\_6/ptodata/2/pna/US07\_NEW\_COMB.seq:\*  
102: /cgn2\_6/ptodata/2/pna/US08\_NEW\_COMB.seq:\*  
103: /cgn2\_6/ptodata/2/pna/US09\_NEW\_COMB.seq:\*  
104: /cgn2\_6/ptodata/2/pna/US60\_NEW\_COMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18	100.0	18	1	PCT-US97-18348-1
2	18	100.0	18	19	US-08-726-211-1
3	18	100.0	20	1	PCT-US94-10725-7

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C 4 18 100.0 20 5 US-08-124-256-7 Sequence 7, Appl1
C 5 18 100.0 20 9 US-08-217-082-7 Sequence 7, Appl1
C 6 18 100.0 20 52 US-09-379-718-1 Sequence 1, Appl1
C 7 18 100.0 20 52 US-09-379-718-2 Sequence 2, Appl1
8 18 100.0 20 57 US-09-506-979-1 Sequence 1, Appl1
9 18 100.0 22 14 US-08-403-721-3 Sequence 3, Appl1
10 18 100.0 22 14 US-08-403-721-4 Sequence 4, Appl1
11 18 100.0 22 16 US-08-472-801-304 Sequence 304, App
12 18 100.0 22 18 US-08-668-235-305 Sequence 305, App
C 13 18 100.0 35 1 PCT-US94-10725-2 Sequence 2, Appl1
C 14 18 100.0 35 5 US-08-124-256-2 Sequence 2, Appl1
C 15 18 100.0 35 9 US-08-217-082-2 Sequence 2, Appl1
16 18 100.0 45 16 US-08-472-801-303 Sequence 303, App
17 18 100.0 45 18 US-08-668-235-304 Sequence 304, App
18 17 94.4 19 35 US-09-018-194-7 Sequence 7, Appl1
19 14 77.8 15 57 US-09-506-979-8 Sequence 8, Appl1
20 13.8 76.7 46 54 US-09-404-520-40525 Sequence 40525, A
C 21 13.2 73.3 20 57 US-09-514-000-13846 Sequence 13846, A
22 13 72.2 15 57 US-09-506-979-9 Sequence 9, Appl1
23 13 72.2 18 1 PCT-US94-10725-17 Sequence 17, Appl1
24 13 72.2 18 1 PCT-US97-19791-45 Sequence 45, Appl1
25 13 72.2 18 1 PCT-US99-09863-49 Sequence 49, Appl1
26 13 72.2 18 1 PCT-US99-09863-89 Sequence 89, Appl1
27 13 72.2 18 5 US-08-124-256-17 Sequence 17, Appl1
28 13 72.2 18 19 US-08-738-652A-55 Sequence 55, Appl1
29 13 72.2 18 19 US-08-738-652-55 Sequence 55, Appl1
30 13 72.2 18 31 US-08-960-774-45 Sequence 45, Appl1
31 13 72.2 18 36 US-09-030-701-27 Sequence 27, Appl1
32 13 72.2 18 38 US-09-078-954-14 Sequence 14, Appl1
33 13 72.2 18 38 US-09-078-955-14 Sequence 14, Appl1
34 13 72.2 18 40 US-09-108-673A-34 Sequence 34, Appl1
35 13 72.2 18 40 US-09-118-220-1 Sequence 1, Appl1
36 13 72.2 18 42 US-09-191-170-53 Sequence 53, Appl1
37 13 72.2 18 44 US-09-241-653-62 Sequence 62, Appl1
38 13 72.2 18 44 US-09-249-247-218 Sequence 218, App
39 13 72.2 18 46 US-09-248-098-59 Sequence 218, App
40 13 72.2 18 46 US-09-286-098-59 Sequence 59, Appl1
41 13 72.2 18 46 US-09-286-098-104 Sequence 104, App
42 13 72.2 18 48 US-09-306-281-49 Sequence 49, Appl1
43 13 72.2 18 48 US-09-306-281-89 Sequence 89, Appl1
44 13 72.2 18 49 US-09-337-584-45 Sequence 45, Appl1
45 13 72.2 18 102 US-08-923-771B-146 Sequence 146, App
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## ALIGNMENTS

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RESULT 1
PCT-US97-18348-1
; Sequence 1, Application PC/TUS9718348
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: INHIBITION OF Bcl-2 PROTEIN EXPRESSION BY
; TITLE OF INVENTION: LIPOSOMAL ANTISENSE OLIGODEOXYNUCLEOTIDES
; NUMBER OF SEQUENCES: 7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US97/18348
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/726,211
; FILING DATE: 04-OCT-1996
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
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PCT-US97-18348-1
Query Match 100.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CAGCGTGGCCATCCTTC 18
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Db 1 CAGCGTGGCCATCCTTC 18
```

```
RESULT 2
US-08-726-211-1
; Sequence 1, Application US/08726211
; GENERAL INFORMATION:
; APPLICANT: Torto, Mar
; APPLICANT: Tari, Ana M.
; TITLE OF INVENTION: INHIBITION OF Bcl-2 PROTEIN EXPRESSION BY
; TITLE OF INVENTION: LIPOSOMAL ANTISENSE OLIGODEOXYNUCLEOTIDES
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: United States of America
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/726,211
; FILING DATE: Concurrently Herewith
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: UTXC:504
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (512) 474-7577
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-726-211-1
Query Match 100.0%; Score 18; DB 19; Length 18;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CAGCGTGGCCATCCTTC 18
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Db 1 CAGCGTGGCCATCCTTC 18
RESULT 3
PCT-US94-10725-7/C
; Sequence 7, Application PC/TUS9410725
; GENERAL INFORMATION:
; APPLICANT: Reed, John
; TITLE OF INVENTION: Regulation of bcl-2 Gene Expression
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Gray Cary Ware & Freidenrich
; STREET: 401 B Street, Suite 1700
```

CITY: San Diego  
STATE: CA  
COUNTRY: USA  
ZIP: 92101-4297  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette 3.5 inch, 1.44 Mb storage  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/10725  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Brotman, Harris F.  
REGISTRATION NUMBER: 35461  
REFERENCE/DOCKET NUMBER: P0040M01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 699-3630  
TELEFAX: (619) 236-1048  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
ANTI-SENSE: NO  
PCT-US94-10725-7

Query Match 100.0%; Score 18; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 12;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CAGCGTGGCCATCCTTC 18  
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Db 20 CAGCGTGGCCATCCTTC 3

RESULT 4  
US-08-124-256-7/c  
Sequence 7, Application US/08124256  
GENERAL INFORMATION:  
APPLICANT: Reed, John  
TITLE OF INVENTION: Regulation of bcl-2 Gene Expression  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Gray, Cary, Ames & Frye  
STREET: 401 B Street, Suite 1700  
CITY: San Diego  
STATE: CA  
COUNTRY: USA  
ZIP: 92101-4297  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/124,256  
FILING DATE:  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Brotman, Harris F.  
REGISTRATION NUMBER: 35461  
REFERENCE/DOCKET NUMBER: P0041U050  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 699-3630  
TELEFAX: (619) 236-1048  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 base pairs

TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
ANTI-SENSE: NO  
US-08-124-256-7

Query Match 100.0%; Score 18; DB 5; Length 20;  
Best Local Similarity 100.0%; Pred. No. 12;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CAGCGTGGCCATCCTTC 18  
|||||  
Db 20 CAGCGTGGCCATCCTTC 3

RESULT 5  
US-08-217-082-7/c  
Sequence 7, Application US/08217082  
GENERAL INFORMATION:  
APPLICANT: John Reed  
TITLE OF INVENTION: Antisense Oligonucleotides For  
TITLE OF INVENTION: Inhibiting the Growth of Cells Expressing the  
NUMBER OF SEQUENCES: 16  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Woodcock Washburn Kurtz  
ADDRESSEE: Mackiewicz & Norris  
STREET: One Liberty Place - 46th Floor  
CITY: Philadelphia  
STATE: PA  
COUNTRY: USA  
ZIP: 19103  
COMPUTER READABLE FORM:  
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: PC-DOS  
SOFTWARE: WORDPERFECT 5.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/217,082  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/07/840,716  
FILING DATE:  
APPLICATION NUMBER: 288,692  
FILING DATE: December 22, 1988  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane Massey Licata  
REGISTRATION NUMBER: 32,257  
REFERENCE/DOCKET NUMBER: UPN-0906  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (215) 568-3100  
TELEFAX: (215) 568-3439  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
ANTI-SENSE: NO  
US-08-217-082-7

Query Match 100.0%; Score 18; DB 9; Length 20;  
Best Local Similarity 100.0%; Pred. No. 12;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CAGCGTGGCCATCCTTC 18  
|||||  
Db 20 CAGCGTGGCCATCCTTC 3

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RESULT 6
US-09-379-718-1
; Sequence 1, Application US/09379718
; GENERAL INFORMATION:
; APPLICANT: Farrell, Nicholas
; TITLE OF INVENTION: High Affinity DNA Binding Compounds as Adjuvants in
; FILE REFERENCE: farrell/kloster
; CURRENT APPLICATION NUMBER: US/09/379,718
; CURRENT FILING DATE: 1999-08-24
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-09-379-718-1
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Query Match          100.0%; Score 18; DB 52; Length 20;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 CAGCGTGGCCCATCCTTC 18
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Db 1 cagcgtgcccacatccttc 18

RESULT 7
US-09-379-718-2/c
; Sequence 2, Application US/09379718
; GENERAL INFORMATION:
; APPLICANT: Farrell, Nicholas
; APPLICANT: Kloster, Miriam
; TITLE OF INVENTION: High Affinity DNA Binding Compounds as Adjuvants in
; FILE REFERENCE: farrell/kloster
; CURRENT APPLICATION NUMBER: US/09/379,718
; CURRENT FILING DATE: 1999-08-24
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 2
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-09-379-718-2
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Query Match          100.0%; Score 18; DB 52; Length 20;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 CAGCGTGGCCCATCCTTC 18
   |||||
Db 20 CAGCGTGGCCCATCCTTC 3

RESULT 8
US-09-506-979-1
; Sequence 1, Application US/09506979
; GENERAL INFORMATION:
; APPLICANT: TARI, ANA M.
; APPLICANT: LOPEZ-BERESPEIN, GABRIEL
; APPLICANT: GUTIERREZ-PUENTE, YOLANDA
; TITLE OF INVENTION: SMALL OLIGONUCLEOTIDES WITH ANTI-TUMOR ACTIVITY
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; FILE REFERENCE: UTXC619
; CURRENT APPLICATION NUMBER: US/09/506,979
; CURRENT FILING DATE: 2000-02-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-506-979-1
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Query Match          100.0%; Score 18; DB 57; Length 20;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 CAGCGTGGCCCATCCTTC 18
   |||||
Db 1 cagcgtgcccacatccttc 18
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RESULT 9
US-08-403-721-3
; Sequence 3, Application US/08403721
; GENERAL INFORMATION:
; APPLICANT: EVAN, Gerald Ian
; TITLE OF INVENTION: Modified Cells And Methods Of Treatment
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HALE AND DORR
; STREET: 1455 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC Compatible
; SOFTWARE: Patentln Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/403,721
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB93/00686
; FILING DATE: 02 APRIL 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: HENRY N. WIXON
; REFERENCE/DOCKET NUMBER: 104322.139
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 942-8400
; TELEFAX: (202) 942-8484
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 22 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; HYPOTHETICAL: NO
; ANTI-SENSE: YES
US-08-403-721-3
```

```
Query Match          100.0%; Score 18; DB 14; Length 22;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```



NAME: Brotman, Harris F.  
REGISTRATION NUMBER: 35461  
REFERENCE/DOCKET NUMBER: P0040M01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 699-3630  
TELEFAX: (619) 236-1048  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 35 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
ANTI-SENSE: NO  
PCT-US94-10725-2

Query Match 100.0%; Score 18; DB 1; Length 35;  
Best Local Similarity 100.0%; Pred. No. 12;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAGCGTGGCCCATCTTC 18  
DB 30 CAGCGTGGCCCATCTTC 13

RESULT 14  
US-08-124-256-2/C  
Sequence 2, Application US/08124256  
GENERAL INFORMATION:  
APPLICANT: Reed, John  
TITLE OF INVENTION: Regulation of bcl-2 Gene Expression  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Gray, Cary, Ames & Frye  
STREET: 401 B Street, Suite 1700  
CITY: San Diego  
STATE: CA  
COUNTRY: USA  
ZIP: 92101-4297  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/124,256  
FILING DATE:  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Brotman, Harris F.  
REGISTRATION NUMBER: 35461  
REFERENCE/DOCKET NUMBER: P0041US0  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 699-3630  
TELEFAX: (619) 236-1048  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 35 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
ANTI-SENSE: NO  
US-08-124-256-2

Query Match 100.0%; Score 18; DB 5; Length 35;  
Best Local Similarity 100.0%; Pred. No. 12;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAGCGTGGCCCATCTTC 18  
DB 30 CAGCGTGGCCCATCTTC 13

DB 30 CAGCGTGGCCCATCTTC 13

RESULT 15  
US-08-217-082-2/C  
Sequence 2, Application US/08217082  
GENERAL INFORMATION:  
APPLICANT: John Reed  
TITLE OF INVENTION: Antisense Oligonucleotides For  
Inhibiting the Growth of Cells Expressing the  
TITLE OF INVENTION: Human bcl-2 gene  
NUMBER OF SEQUENCES: 16  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Woodcock Washburn Kurtz  
ADDRESSEE: Mackiewicz & Norris  
STREET: One Liberty Place - 46th Floor  
CITY: Philadelphia  
STATE: PA  
COUNTRY: USA  
ZIP: 19103  
COMPUTER READABLE FORM:  
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: PC-DOS  
SOFTWARE: WORDPERFECT 5.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/217,082  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/07/840,716  
FILING DATE:  
APPLICATION NUMBER: 288,692  
FILING DATE: December 22, 1988  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane Massey Licata  
REGISTRATION NUMBER: 32,257  
REFERENCE/DOCKET NUMBER: UPN-0906  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (215) 568-3100  
TELEFAX: (215) 568-3439  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 35  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
ANTI-SENSE: NO  
US-08-217-082-2

Query Match 100.0%; Score 18; DB 9; Length 35;  
Best Local Similarity 100.0%; Pred. No. 12;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAGCGTGGCCCATCTTC 18  
DB 30 CAGCGTGGCCCATCTTC 13

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OM nucleic - nucleic search, using sw model

Run on: June 18, 2000, 18:33:40 ; Search time 525.5 Seconds  
(without alignments)  
138.835 Million cell updates/sec

Title: PCT-US97-18348-1  
Perfect score: 18  
Sequence: 1 CAGCGTGGCCATCCTTC 18

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 4857316 seqs, 202661650 residues

Total number of hits satisfying chosen parameters: 23194

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Listing first 45 summaries

Database :

EST: \*  
1: em\_est1: \*  
2: em\_est2: \*  
3: em\_est3: \*  
4: em\_est4: \*  
5: em\_est5: \*  
6: em\_est6: \*  
7: em\_est7: \*  
8: em\_est8: \*  
9: em\_est9: \*  
10: em\_est10: \*  
11: em\_est11: \*  
12: em\_est12: \*  
13: em\_est13: \*  
14: em\_est14: \*  
15: em\_est15: \*  
16: em\_est16: \*  
17: em\_est17: \*  
18: em\_est18: \*  
19: em\_est19: \*  
20: gb\_est1: \*  
21: gb\_est2: \*  
22: gb\_est3: \*  
23: gb\_est4: \*  
24: gb\_est5: \*  
25: gb\_est6: \*  
26: gb\_est7: \*  
27: gb\_est8: \*  
28: gb\_est9: \*  
29: gb\_est10: \*  
30: gb\_est11: \*  
31: gb\_est12: \*  
32: gb\_est13: \*  
33: gb\_est14: \*  
34: gb\_est15: \*  
35: gb\_est16: \*  
36: gb\_est17: \*  
37: gb\_est18: \*  
38: gb\_est19: \*  
39: gb\_est20: \*  
40: gb\_est21: \*  
41: gb\_est22: \*  
42: gb\_est23: \*  
43: gb\_est24: \*  
44: gb\_est25: \*

45: gb\_est26: \*  
46: gb\_est27: \*  
47: gb\_est28: \*  
48: gb\_est29: \*  
49: gb\_est30: \*  
50: gb\_est31: \*  
51: gb\_est32: \*  
52: em\_est20: \*  
53: em\_est21: \*  
54: em\_est22: \*  
55: em\_est23: \*  
56: em\_est24: \*  
57: em\_est25: \*  
58: em\_est26: \*  
59: gb\_est33: \*  
60: gb\_est34: \*  
61: gb\_est35: \*  
62: gb\_est36: \*  
63: gb\_est37: \*  
64: gb\_est38: \*  
65: em\_est27: \*  
66: em\_est28: \*  
67: em\_est29: \*  
68: em\_est30: \*  
69: gb\_est39: \*  
70: gb\_est40: \*  
71: gb\_est41: \*  
72: gb\_est42: \*  
73: gb\_est43: \*  
74: gb\_est44: \*  
75: em\_est31: \*  
76: em\_est32: \*  
77: em\_est33: \*  
78: em\_est34: \*  
79: gb\_est45: \*  
80: gb\_est46: \*  
81: gb\_est47: \*  
82: gb\_gss1: \*  
83: gb\_gss2: \*  
84: gb\_gss3: \*  
85: gb\_gss4: \*  
86: em\_gss1: \*  
87: em\_gss2: \*  
88: em\_gss3: \*  
89: em\_gss4: \*  
90: gb\_gss5: \*  
91: gb\_gss6: \*  
92: gb\_gss7: \*  
93: gb\_gss8: \*  
94: gb\_gss9: \*  
95: em\_gss5: \*  
96: em\_gss6: \*  
97: em\_gss7: \*  
98: em\_gss8: \*  
99: em\_gss9: \*  
100: em\_gss10: \*  
101: em\_gss11: \*  
102: gb\_gss10: \*  
103: gb\_gss11: \*  
104: em\_gss12: \*  
105: gb\_gss12: \*  
106: gb\_gss13: \*  
107: gb\_gss14: \*  
108: gb\_gss15: \*  
109: gb\_gss16: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result Query

No.	Score	Match	Length	DB	ID	Description
C 1	11.8	65.6	25	40	AA961707	AA961707 or40e08.s
C 2	11.6	64.4	41	37	AA680963	AA680963 lmfRam057
C 3	10.8	60.0	35	23	H53677	H53677 yu38f01.r1
C 4	10.8	60.0	43	41	AT1038493	AT1038493 ox38a09.s
C 5	10.8	60.0	49	20	T11453	T11453 CHR90019.ch
C 6	10.6	58.9	37	43	A1188871	A1188871 qd27b11.x
C 7	10.2	56.7	31	46	A1459772	A1459772 ac93c06.x
C 8	10.2	56.7	40	46	A1459438	A1459438 ar81b11.x
C 9	10.2	56.7	43	36	AA654543	AA654543 nt59d05.s
C 10	10.2	56.7	43	40	AT000393	AT000393 ct06e05.s
C 11	10.2	56.7	46	39	AA854777	AA854777 aj77b02.s
C 12	10	55.6	31	39	AA868659	AA868659 ak49g02.s
C 13	10	55.6	41	34	AA509356	AA509356 vg18a09.r
C 14	10	55.6	45	44	A0025518	A0025518 EP(X)1587
C 15	10	55.6	49	44	A1254752	A1254752 gt89f07.x
C 16	10	55.6	49	49	AT628197	AT628197 ly22f08.x
C 17	9.8	54.4	26	94	A0025266	A0025266 EP(3)3084
C 18	9.8	54.4	28	48	A1625245	A1625245 ts42e06.x
C 19	9.8	54.4	34	26	W24112	W24112 zb48h04.r1
C 20	9.8	54.4	37	38	AA808573	AA808573 cb38b02.s
C 21	9.8	54.4	37	82	HSMC09A10	X08437 H.sapiens.D
C 22	9.8	54.4	40	30	AA226145	AA226145 nc09f09.r
C 23	9.8	54.4	43	30	AA231183	AA231183 mw31f06.r
C 24	9.8	54.4	48	21	T61673	T61673 yb87g04.s1
C 25	9.6	53.3	34	40	AA971412	AA971412 op92c11.s
C 26	9.6	53.3	34	47	A1528944	A1528944 ud43c06.y
C 27	9.6	53.3	37	39	AA867149	AA867149 vx23h09.r
C 28	9.6	53.3	40	24	H99190	H99190 yx15d07.s1
C 29	9.6	53.3	43	40	AA948558	AA948558 on68d08.s
C 30	9.6	53.3	43	44	A1282449	A1282449 qv04c12.x
C 31	9.6	53.3	46	37	AA719000	AA719000 z32h204.r
C 32	9.6	53.3	46	38	AA795140	AA795140 vq94b01.r
C 33	9.6	53.3	49	38	AA813812	AA813812 at72c08.s
C 34	9.6	53.3	49	44	AT146743	AT146743 qk40c09.x
C 35	9.4	52.2	34	41	AT102003	AT102003 ua95h03.r
C 36	9.4	52.2	37	39	AA889248	AA889248 ak26d11.s
C 37	9.4	52.2	40	41	A1027584	A1027584 ow4a04.x
C 38	9.4	52.2	43	22	H09843	H09843 ym01d05.r1
C 39	9.4	52.2	43	33	AA433628	AA433628 vf47d01.r
C 40	9.4	52.2	46	23	HA9581	HA9581 y023b02.s1
C 41	9.4	52.2	46	34	AA455514	AA455514 zx77g01.s
C 42	9.4	52.2	47	23	R85311	R85311 y039d07.r1
C 43	9.4	52.2	49	26	W40572	W40572 zc79e12.r1
C 44	9.4	52.2	49	30	AA233183	AA233183 zrg9f08.s
C 45	9.2	51.1	27	22	R23703	R23703 yh35e11.r1

## ALIGNMENTS

RESULT 1  
AA961707/c  
LOCUS  
DEFINITION  
AA961707 25 bp mRNA  
or40e08.s1 NCI\_CGAP.GC3 Homo sapiens cDNA clone IMAGE:1598342 3'  
similar to SW:SN24\_HUMAN P51533 POSSIBLE GLOBAL TRANSCRIPTION  
ACTIVATOR SNF214 ; contains TARI.t2 TARI repetitive element ; , mRNA  
sequence.

ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM  
AA961707.1 GI:3133871  
EST.  
human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT  
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)  
On Sep 12, 1996 this sequence version replaced gi:1407458.  
Contact: Robert Strausberg, Ph.D.

Tel: (301) 496-1550  
Email: Robert.Strausberg@nih.gov  
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael  
Emmett-Buck, M.D., Ph.D.  
CDNA Library Preparation: M. Bento Soares, Ph.D.  
CDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www.bio.llnl.gov/bbrp/image/image.html

## FEATURES

source  
Insert Length: 388 Std Error: 0.00  
Seq primer: -40m13 fwd. ET from Amersham  
High quality sequence stop: 1.  
Location/Qualifiers  
1..25  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1598342"  
/clone\_lib="NCI\_CGAP\_GC3"  
/tissue\_type="pooled germ cell tumors"  
/lab\_host="DH10B"  
/note="Vector: pT73D-Pac (Pharmacia) with a modified  
polylinker: 1st strand cDNA was prepared from 3 pooled  
germ cell tumors, and was then primed with a Not I -  
oligo(dT) primer. Double-stranded cDNA was ligated to Eco  
RI adaptors (Pharmacia), digested with Not I and cloned  
into the Not I and Eco RI sites of the modified pT73  
vector. Library is not normalized. Library was  
constructed by Bento Soares and M. Fatima Bonaldo."

## BASE COUNT

4 a 7 c 10 g 4 t

Query Match  
Best Local Similarity 65.6%; Score 11.8; DB 40; Length 25;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CAGCGTGGCCATCC 15  
||||||| 11 11  
Db 24 CAGCGTGGCCATCAACC 10

RESULT 2  
AA680963/c  
LOCUS  
DEFINITION  
AA680963 41 bp mRNA  
lmfRam0579 Leishmania major Amastigote Lambda zap II library  
Leishmania major cDNA clone S07 5', mRNA sequence.  
ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM  
AA680963.1 GI:2662968  
EST.  
Leishmania major.  
Leishmania major.  
Eukaryota; Euzlenozoa; Kinetoplastida; Trypanosomatidae;  
Leishmania.  
1 (bases 1 to 41)  
Norris,A.R., Dyall,S.D., Smith,D.F. and Blackwell,J.M.  
Analysis of leishmania Major Amastigote Expressed Sequence Tags  
Unpublished (1997)  
On Sep 12, 1997 this sequence version replaced gi:2264545.  
Contact: Blackwell JM  
Cambridge Institute for Medical Research  
Wellcome Trust/MRC Building, Addenbrooke's Hospital, Hills Road,  
Cambridge CB2 2XY, UK  
Tel: 01223 336 143  
Fax: 01223 331 206  
Email: jmb37@cus.cam.ac.uk

REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT  
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)  
On Sep 12, 1996 this sequence version replaced gi:1407458.  
Contact: Robert Strausberg, Ph.D.

## FEATURES

```

source
    1..41
    /organism="Homo sapiens"
    /strain="Friedlin"
    /db_xref="taxon:9606"
    /clone="S07"
    /clone_1lb="Leishmania major Amastigote Lambda Zap II library"
    /cell_type="Amastigote"
    /note="Vector: Lambda Zap II; Site-1: XhoI; Site-2: NotI"

BASE COUNT      9 a      14 c      8 g      10 t
ORIGIN

Query Match          64.4%; Score 11.6; DB 37; Length 41;
Best Local Similarity 77.8%; Pred. No. 1.9e+04;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0

QY      1 CAGCGTGGCCATCCTTC 18
        ||| ||||| ||| |||
Db       29 CAGACTGCACATGATTC 12

RESULT 3
LOCUS   H53677              35 bp      mRNA                      EST           20-SEP-1995
DEFINITION YJ38f01.r1 Soares ovary tumor NBHOT Homo sapiens cDNA clone IMAGE:236089.5 similar to gb:X01683 ALPHA-1-ANTITRYPSIN PRECURSOR (HUMAN); , mRNA sequence.
ACCESSION H53677
VERSION   H53677.1 GI:993824
KEYWORDS  EST.
SOURCE    human.
ORGANISM  Homo sapiens
Eukarya; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1 (bases 1 to 35)
AUTHORS  Hillier,L., Lennon,G., Becker,M., Bonaldo,M.F., Chapelli,B., Chisoe,S., Dietrich,N., Dubuque,T., Favello,A., Gish,W., Hawkins,M., Hultman,M., Kucaba,T., Lacy,M., Le,M., Le,N., Madis,E., Moore,B., Morris,M., Parsons,J., Prange,C., Rifkin,L., Rohlfing,T., Schellenberg,K., Soares,M.B., Tan,F., Thierry-Mieg,J., Trevas,R.E., Underwood,K., Wohlmann,P., Waterston,R., Wilson,R. and Marra,M.
Generation and analysis of 280,000 human expressed sequence tags Genome Res. 6 (9), 807-828 (1996)
COMMENT   On May 8, 1995 this sequence version replaced gi:800757.
Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel.: 314 286 1800
Fax: 314 286 1810
Email: estewatson.wustl.edu
Insert Size: 1505
High quality sequence starts: 1
High quality sequence stops: 1
Source: IMAGE Consortium, LNL
This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.lnl.gov) for further information.
Trace considered overall poor quality
Insert Length: 1505 Std Error: 0.00
Seq primer: M13RPI
High quality sequence stop: 1.
Location/Qualifiers
    1..35
    /organism="Homo sapiens"
    /db_xref="GDB:3863008"
    /db_xref="taxon:9606"
    /clone="IMAGE:236089"
    /clone_1lb="Soares ovary tumor NBHOT"
    /sex="female"
    /tissue_type="ovarian tumor"
    /lab_host="DH10B (ampicillin resistant)"

```

	/note="Organ: ovary; Vector: pT73D (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' TGTTACCAATCTGAAAGTGAGCGCCGCCGGTTTTTTTTTTTTTTT 3'], double-stranded cDNA was size selected, ligated to Eco RI adapters (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pT73 vector (Pharmacia). Library constructed by Bento Soares and M.Fatima Bonaldo."								
BASE COUNT	3 a	11 c	9 g	11 t	1 others				
ORIGIN									
Query Match	Best Local Similarity	80.0%	Score	10.8;	DB	23;			
Matches	12:	Conservative	0;	Mismatches	3;	Indels	0;	Gaps	0;
Oy	4	CGTCGCATCCTTC	18						
Dd	19	CGTGGGCGATCTCTNC	33						
RESULT	4	A1038493/c							
LOCUS	DEFINITION	A1038493	43 bp	mRNA	EST	24-SEP-1998			
ACCESION	KEYWORDS	OX38a09.1	Soares_total_fetus_NB2HF8_9w	Homo sapiens	cDNA clone IMAGE:1658584	3 similar to TR:Q41707 Q41707 EXTNSINS CLASS 1 PROTEIN PRECURSOR.			
SOURCE	ORGANISM	A1038493	GI:3277687						
REFERENCE	AUTHORS	1	(bases 1 to 43)						
TITLE	JOURNAL	NCI-CGAP	http://www.ncbi.nlm.nih.gov/ncicgap.						
COMMENT	Unpublished (1997)	Contact: Robert Strausberg, Ph.D.	Tel: (301) 496-1550	Email: Robert_Strausberg@nih.gov	This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.	Trace considered overall poor quality	Insert length: 332	Std Error: 0.00	Seq primer: -40ml3 fwd. ET from Amersham
FEATURES	source	High quality sequence stop: 1.	Location/Qualifiers	1..43	/organism="Homo sapiens"	/db_xref="taxon:9606"	/clone="IMAGE:1658584"	/clone_id="Soares_total_fetus_NB2HF8_9w"	/dev_stage="8-9 weeks"
BASE COUNT	11 a	6 c	24 g	2 t					
ORIGIN									
Query Match	60.0%	Score	10.8;	DB	41;	Length	43;		

Best Local Similarity 85.7%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
OY 4 CGGCGGCCACCTT 17  
||||| ||||| ||  
Db 14 CGTGCTCCATCCTT 1

RESULT 5  
T11453 49 bp DNA EST 30-NOV-1993  
LOCUS T11453/c  
DEFINITION CHR9019 Chromosome 9 exon Homo sapiens genomic clone 34B-5.5 and  
3', mRNA sequence.  
ACCESSION T11453  
VERSION T11453.1 GI:430876  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE 1 (bases 1 to 49)  
AUTHORS Church,D.M., Banks,L.T., Rogers,A.C., Graw,S.L., Housman,D.E.,  
Gusella,J.F. and Buckler,A.J.  
TITLE Identification of human chromosome 9 specific genes using exon  
amplification  
JOURNAL Hum. Mol. Genet. 2, 1915-1920 (1993)  
MEDLINE 94108448  
COMMENT Contact: Buckler AJ  
Molecular Neurogenetics Unit  
Massachusetts General Hospital  
Building 149, 13th St., Charlestown MA 02129  
Tel: 6177249616  
Fax: 6177265736  
Email: buckler@helix.mgh.harvard.edu  
Seq primer: T3 and T7

FEATURES  
source location/Qualifiers

1. 49  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="34B-5"  
/clone\_lib="Chromosome 9 exon"  
/lab\_host="E. coli DH5a"  
/note="Vector: pBluescriptIIKS+; Exons were isolated from  
human chromosome 9 specific cosmids using the method of  
exon amplification (Proc. Natl. Acad. Sci USA  
88:4005-4009, 1991). Exons were cloned into  
pBluescriptIIKS+ converted to T vector at the EcoRV site.

BASE COUNT 14 a 6 c 18 g 11 t  
ORIGIN

Query Match 60.0%; Score 10.8; DB 20; Length 49;  
Best Local Similarity 85.7%; Pred. No. 4.9e+04;  
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 CAGCGTGGCCATC 14  
||||| ||||| ||  
Db 19 CAGCTGCTCCATC 6

RESULT 6  
A118871 37 bp mRNA EST 13-OCT-1998  
LOCUS A118871  
DEFINITION qd27b11.x1 Soares,placenta.8to9weeks.2nbhp8to9w Homo sapiens cDNA  
clone IMAGE:1724925.3' similar to SW:FOR2.HUMAN P45880  
VOLTAGE-DEPENDENT ANION-SELECTIVE CHANNEL PROTEIN 2 ; , mRNA  
sequence.

ACCESSION A118871  
VERSION A118871.1 GI:3740080  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 37)  
AUTHORS NCI-CCAP http://www.ncbi.nlm.nih.gov/ccap  
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
JOURNAL Unpublished (1997)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Tel: (301) 496-1550  
Email: Robert.Strausberg@nih.gov

This clone is available royalty-free through LNL; contact the  
IMAGE Consortium (info@image.lnl.gov) for further information.  
Trace considered overall poor quality  
Seq primer: -40UP from G4bco  
High quality sequence stop: 1.

FEATURES  
source location/Qualifiers

1. 37  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1724925"  
/clone\_lib="Soares,placenta.8to9weeks.2nbhp8to9w"  
/dev\_stage="two placentae; one from 8 weeks and another  
from 9 weeks post conception"  
/lab\_host="DH10B (ampicillin resistant)"  
/note="Organ: Placenta; Vector: pT73D (Pharmacia) with a  
modified polylinker; Site: 1: Not I; Site 2: Eco RI; 1st  
strand cDNA was primed with a Not I - oligo(dT) primer [5'  
GTTCACATCTGACGTGGAGCGCGCGGATTTTCTTTTCTTTT 3'],  
double-stranded cDNA was size selected, ligated to Eco RI  
adapters (Pharmacia), digested with Not I and cloned into  
the Not I and Eco RI sites of a modified pT73 vector  
(Pharmacia). Library constructed by Bento Soares and  
M.Fatima Bonaldo."

BASE COUNT 8 a 12 c 9 g 8 t  
ORIGIN

Query Match 58.9%; Score 10.6; DB 43; Length 37;  
Best Local Similarity 76.5%; Pred. No. 5.7e+04;  
Matches 13; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 CAGCGTGGCCACCTT 17  
||||| ||||| ||  
Db 15 CAGCGCGACCCACCTT 31

RESULT 7  
A1459772/c 31 bp mRNA EST 09-MAR-1999  
LOCUS a093c06.x1 Schiller meningioma Homo sapiens cDNA clone  
DEFINITION IMAGE:1953418.3' similar to SW:NUB1\_BOVIN P25708 NMDH-UBIQUINONE  
OXIDOREDUCTASE 51 KD SUBUNIT PRECURSOR ; , mRNA sequence.  
ACCESSION A1459772  
VERSION A1459772.1 GI:4312653  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE 1 (bases 1 to 31)  
AUTHORS Hillier,L., Allen,M., Bowles,L., Dubuque,T., Geisels,G., Jost,S.,  
Kizman,D., Kucaba,T., Lacy,M., Le,N., Lennon,G., Marra,M.,  
Martin,J., Moore,B., Schellenberg,K., Steptoe,M., Tan,F.,  
Theising,B., White,Y., Wylie,T., Waterston,R. and Wilson,R.  
TITLE WashU-NCI human EST Project  
JOURNAL Unpublished (1997)  
COMMENT On Jun 5, 1998 this sequence version replaced g1:3188933.  
Contact: Wilson RK  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: est@watson.wustl.edu

This clone is available royalty-free through LNL; contact the IMAGE Consortium (infoimage.lnl.gov) for further information.

Trace considered overall poor quality

Possible reversed clone: similarity on wrong strand

Seq primer: -40UP from Glibco

High quality sequence stop: 1.  
Location/Qualifiers

1. .31  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1953418"  
/clone\_id="Schiller meningioma"  
/sex="female"  
/tissue\_type="meningioma"  
/dev\_stage="72 years"  
/lab\_host="SOLR"  
/note="Organ: brain; Vector: pBluescript SK- (Stratagene); Site\_1: EcoRI; Site\_2: XhoI; Double-stranded cDNA was prepared from human meningioma using primer 5'-GAGAGAGAGAGAGAGAGAACTGAGT(18)-3'. An EcoRI adaptor was used on the 5' end of the cDNA as follows: 5'-ATTCCGCACAG-3'. The library was size-selected and went through one round of amplification. Average insert size is 1.7 kb, with a range from 0.4-12 kb. Tumor identification by consensus pathology. This library was constructed by Dr. Martin Schiller (Johns Hopkins University)."

BASE COUNT 7 a 11 c 7 g 6 t  
ORIGIN

Query Match 56.7%; Score 10.2; DB 46; Length 31;

Best Local Similarity 80.0%; Pred. No. 8.6e+04;  
Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CAGCGTGGCCATCC 15  
||| |||||

Db 22 CAGTGTACCCATCC 8

RESULT 8  
LOCUS A1459438 40 bp mRNA EST 09-MAR-1999

DEFINITION ar81b11.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone

IMAGE:2151645.3; similar to SW:COX3\_HYLLA Q95707 CYTOCHROME C

OXIDASE POLYPEPTIDE III ;, mRNA sequence.

ACCESSION A1459438.1 GI:4312319

VERSION EST.

KEYWORDS human.

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
Eutheria; Primates; Catarrhini; Homnidae; Homo.  
1 (bases 1 to 40)  
Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisels, G., Jost, S.,  
Kizman, D., Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M.,  
Mertins, J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F.,  
Theising, B., White, Y., Wylie, T., Waterston, R. and Wilson, R.  
WashU-NCI human EST Project  
Unpublished (1997)  
On Jun 5, 1998 this sequence version replaced gi:3188598.  
Contact: Wilson RK  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: est@wustl.edu  
This clone is available royalty-free through LNL; contact the  
IMAGE Consortium (infoimage.lnl.gov) for further information.  
Trace considered overall poor quality  
Possible reversed clone: similarity on wrong strand  
Seq primer: -40UP from Glibco  
High quality sequence stop: 1.

#### FEATURES

source

Location/Qualifiers

1. .40

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="IMAGE:2151645"

/clone\_id="Barstead colon HPLRB7"

/sex="male"

/dev\_stage="adult, age 25"

/lab\_host="DH10B (phage resistant)"

/note="Organ: colon; Vector: pT73D-Pac (Pharmacia) with a  
modified polylinker; Site\_1: EcoRI; Site\_2: NotI; 1st  
strand cDNA was primed with a Not I - oligo(dT) primer [5'  
TGTACGATCTGAGAGGAGCGCGCCCTTTTTTTTTTTTTTTT  
3']; double-stranded cDNA was ligated to Eco RI adaptors  
[5' ATTCACCTAGTAT 3' and 5' ATTACTAGT 3'], digested  
with Not I and cloned into the Not I and Eco RI sites of  
the modified pT73 vector. Library constructed by Bob  
Barstead."

BASE COUNT 6 a 9 c 15 g 10 t  
ORIGIN

Query Match 56.7%; Score 10.2; DB 46; Length 40;

Best Local Similarity 80.0%; Pred. No. 9.2e+04;  
Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 AGCGTGGCCATCC 16  
||| |||||

Db 12 AGCGTGGCCATCC 26

RESULT 9  
LOCUS AA654543/c 43 bp mRNA EST 04-NOV-1997

DEFINITION nt59605.s1 NCI\_CGAP\_Pt3 Homo sapiens cDNA clone IMAGE:1202793

similar to SW:RS19\_HUMAN P39019 40S RIBOSOMAL PROTEIN S19. [1] ;,  
mRNA sequence.

ACCESSION AA654543

VERSION AA654543.1 GI:2590697

KEYWORDS EST.

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
Eutheria; Primates; Catarrhini; Homnidae; Homo.  
1 (bases 1 to 43)  
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)  
On Sep 12, 1996 this sequence version replaced gi:1393535.  
Contact: Robert Strausberg, Ph.D.  
Tel: (301) 496-1550  
Email: Robert.Strausberg@nih.gov  
Tissue Procurement: W. Marston Linehan, M.D., Rodrigo Chuagui,  
M.D., Michael Emmert-Buck, M.D., Ph.D.  
cDNA Library Preparation: David B. Kizman, Ph.D.  
CDNA Library Arrayed by: Genome Systems Inc., Greg Lennon, Ph.D.  
DNA sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LNL at:  
www-bio.lnl.gov/bbrp/image/image.html  
Trace considered overall poor quality  
Seq primer: -40m13 fwd. ET from Amersham  
High quality sequence stop: 1.  
Location/Qualifiers  
1. .43  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1202793"  
/clone\_id="NCI\_CGAP\_Pt3"  
/sex="Male"  
/dev\_stage="45 years old"

```

/lab_host="DH10B"
/Note="Vector: PAMPI0; Site_1: NotI; Site_2: EcoRI; 1st
strand cDNA was primed with oligo(gt)17 on 50 ng of
DNase-treated, total cellular RNA obtained from
5,000-10,000 microdissected cells
histologically-determined to be fully malignant prostate
cancer cells. Double-stranded cDNA was ligated to EcoRI
adaptors, 5 cycles of PCR applied to the cDNA with an
adaptor-specific primer, and the resulting PCR product
subcloned into PAMPI0 by the unc-priming method (Life
Technologies). Average insert size is 600 bp. NOTE: Not
directionally cloned. This library was constructed by
David Krizman."

BASE COUNT      8 a      11 c      12 g      12 t
ORIGIN

Query Match      56.7%; Score 10.2; DB 36; Length 43;
Best Local Similarity 80.0%; Pred. No. 9.4e+04;
Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 CAGCGTGGCCATCC 15
Db      22 CAGCTGCTCATAC 8

RESULT 10
LOCUS      AI000393      43 bp      mRNA      EST      13-FEB-1999
DEFINITION o06e05.s1 NCI-CGAP-GC3 Homo sapiens cDNA clone IMAGE:1614080 3'
            similar to TR:00409 000409 CHECKPOINT SUPPRESSOR 1.; mRNA
            sequence.
ACCESSION      AI000393
VERSION      AI000393.1 GI:3190947
KEYWORDS      EST.
SOURCE      human.
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 43)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
On Jan 17, 1998 this sequence version replaced gi:2044803.
Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1550
Email: Robert.Strausberg@nih.gov
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael
Emmett-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www.bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Insert length: 1173 Std Error: 0.00
Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1. 43
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1614080"
/clone_lib="NCI-CGAP-GC3"
/tissue_type="pooled germ cell tumors"
/lab_host="DH10B"
/Note="Vector: PT73D-Pac (Pharmacia) with a modified
polylinker; 1st strand cDNA was prepared from 3 pooled
germ cell tumors, and was then primed with a Not I -
oligo(dT) primer. Double-stranded cDNA was ligated to Eco

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RI adaptors (Pharmacia), digested with Not I and cloned
into the Not I and Eco RI sites of the modified pT73
vector. Library is not normalised. Library was
constructed by Bento Soares and M. Fatima Bonaldo. "

BASE COUNT      7 a      12 c      15 g      9 t
ORIGIN

Query Match      56.7%; Score 10.2; DB 40; Length 43;
Best Local Similarity 80.0%; Pred. No. 9.4e+04;
Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      2 AGCGTGGCCATCCT 16
Db      21 AGAGTGAGCCATCTT 35

RESULT 11
LOCUS      AA854777      46 bp      mRNA      EST      04-JAN-1999
DEFINITION a177b02.s1 Soares parathyroid tumor NBHPA Homo sapiens cDNA clone
            IMAGE:1402443 3' similar to TR:Q14264 Q14264 ENVELOPE PROTEIN.
            ; contains LTR2.c3 LTR2 repetitive element.; mRNA sequence.
ACCESSION      AA854777
VERSION      AA854777.1 GI:2942315
KEYWORDS      EST.
SOURCE      human.
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 46)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
On Jan 17, 1998 this sequence version replaced gi:2043498.
Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1550
Email: Robert.Strausberg@nih.gov
CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima
Bonaldo, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www.bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Insert length: 1357 Std Error: 0.00
Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1. 46
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1402443"
/clone_lib="Soares parathyroid tumor NBHPA"
/tissue_type="parathyroid tumor"
/dev_stage="adult"
/lab_host="DH10B (ampicillin resistant)"
/Note="Organ: parathyroid gland; Vector: pT73D
(Pharmacia) with a modified polylinker; Site_1: Not I;
Site_2: Eco RI; 1st strand cDNA was primed with a Not I -
oligo(dT) primer
15-
TGTTCACATCTGAAGTGGAGCGCCGACCAATTTTTTTTTTTTTTTTTTTT
T-3']. Double-stranded cDNA was size selected, ligated to
Eco RI adaptors (Pharmacia), digested with Not I and
cloned into the Not I and Eco RI sites of a modified pT73
vector (Pharmacia). Library went through one round of
normalization to a Cot = 5. Library constructed by Bento
Soares and M. Fatima Bonaldo. RNA from sporadic parathyroid

```

adrenomas was kindly provided by Dr. Stephen Marx, National Institute of Diabetes and Digestive and Kidney Diseases, NIH."

BASE COUNT 10 a 16 c 11 g 9 t

ORIGIN

Query Match 56.7%; Score 10.2; DB 39; Length 46;  
Best Local Similarity 80.0%; Pred. No. 9.6e+04;  
Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CAGCGTGGCCATCC 15  
|||||  
Db 31 CAGCGAGAGCGGCTCC 45

RESULT 12  
AA868659 31 bp mRNA EST 16-MAR-1998  
LOCUS AA49602.s1 Soares testis NHT Homo sapiens CDNA clone IMAGE:1409330

DEFINITION 3' similar to TR:014957.014957 SMALL EST SUBUNIT OF  
UBIQUINOL-CYTOCHROME C REDUCTASE.; mRNA sequence.

ACCESSION AA868659.1 GI:2964104  
VERSION AA868659.1  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
AUTHORS Eutheria; Primates; Catarrhini; Homnidae; Homo.  
TITLE 1 (bases 1 to 31)  
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
JOURNAL National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
COMMENT Tumor Gene Index

Unpublished (1997)  
On Jan 19, 1998 this sequence version replaced gi:2152319.  
Contact: Robert Strausberg, Ph.D.  
Tel: (301) 496-1550

Email: Robert.Strausberg@nih.gov  
CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaído, Ph.D.

CDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www-bio.llnl.gov/dbp/image/image.html

Trace considered overall poor quality  
Possible reversed clone: similarity on wrong strand  
Seq primer: -40ml3 fwd. ET from Amersham  
High quality sequence stop: 1.  
Location/Qualifiers

FEATURES  
Source 1. .31

/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1409330"  
/clone\_1lb="Soares\_testis\_NHT"  
/sex="male"  
/lab\_host="DH10B"  
/note="Vector: pT73D-Pac (Pharmacia) with a modified  
polylinker; Site\_1: Not I; Site\_2: Eco RI; 1st strand CDNA  
was prepared from mRNA obtained from Clontech  
Laboratories, Inc., and primed with a Not I - oligo(dT)  
primer [5'  
TGTTCACCAATCTGACGTGAGCGCGCCCAATTTTTTTTTTTT 3']  
Double-stranded CDNA was ligated to Eco RI adaptors  
(Pharmacia), digested with Not I and cloned into the Not I  
and Eco RI sites of the modified pT73 vector. Library  
went through one round of normalization to Cot5, and was  
constructed by Bento Soares and M. Fatima Bonaído."

BASE COUNT 6 a 10 c 10 g 5 t

ORIGIN

Query Match 55.6%; Score 10; DB 39; Length 31;  
Best Local Similarity 100.0%; Pred. No. 1.1e+05;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 AGCGTGGCC 11  
|||||  
Db 4 AGCGTGGCC 13

RESULT 13  
AA509356 41 bp mRNA EST 08-JUL-1997  
LOCUS VG18a09.f1 Soares mouse NBMH Mus musculus CDNA clone IMAGE:861688  
DEFINITION 5' similar to gb:M27034 Mouse MHC class I D-region cell surface  
antigen (MOUSE);, mRNA sequence.

ACCESSION AA509356.1 GI:2247210  
VERSION AA509356  
KEYWORDS EST.  
SOURCE house mouse.

ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
AUTHORS Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
TITLE 1 (bases 1 to 41)  
Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,  
Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,  
Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,  
Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and  
Waterston,R.

The WashU-HMI Mouse EST Project  
Unpublished (1996)  
On Sep 12, 1996 this sequence version replaced gi:1405263.  
Contact: Marra M/Mouse Est Project

WashU-HMI Mouse EST Project  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810

Email: mouseest@wustl.edu  
This clone is available royalty-free through LLNL; contact the  
IMAGE Consortium (info@image.llnl.gov) for further information.  
MGI:505776

Trace considered overall poor quality  
Seq primer: -28ml3 rev2 ET from Amersham  
High quality sequence stop: 1.  
Location/Qualifiers

FEATURES  
Source 1. .41

/organism="Mus musculus"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="IMAGE:861688"  
/clone\_1lb="Soares mouse NBMH"  
/sex="male"  
/tissue\_type="heart"  
/dev\_stage="4 weeks"  
/lab\_host="DH10B"  
/note="Vector: pT73D-Pac (Pharmacia) with a modified  
polylinker; Site\_1: Not I; Site\_2: Eco RI; 1st strand CDNA  
was primed with a Not I - oligo(dT) primer [5'  
TGTTCACCAATCTGACGTGAGCGCGCCCAATTTTTTTTTTTT 3']  
Double-stranded CDNA was ligated to Eco RI adaptors  
(Pharmacia), digested with Not I and cloned into the Not  
I and Eco RI sites of the modified pT73 vector. RNA  
provided by Dr. Minoru Ko, Wayne State Univ. Library  
constructed and normalized by Bento Soares and M. Fatima  
Bonaído."

BASE COUNT 4 a 13 c 16 g 8 t

ORIGIN

Query Match 55.6%; Score 10; DB 34; Length 41;  
Best Local Similarity 100.0%; Pred. No. 1.2e+05;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY	1	CAGCGTGGCC	10
Dd	29	CAGCGTGGCC	20
RESULT	14		
LOCUS	A0025518		GSS
DEFINITION	A0025518	45 bp	DNA
	EP(X)1587 Drosophila melanogaster genomic Sequence recovered from 5' end of P element, genomic survey sequence.		14-OCT-1998
ACCESSION	A0025518		
VERSION	A0025518		
KEYWORDS	GSS.		
SOURCE	fruit fly,		
ORGANISM	Drosophila melanogaster		
	Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.		
REFERENCE	1 (bases 1 to 45)		
AUTHORS	Rehm,E.J. and Rubin,G.M.		
TITLE	The bDp gene disruption project: single EP element insertions unpublished (1998)		
JOURNAL	Contact: Gerald Rubin		
COMMENT	Berkeley Drosophila Genome Project University of California, Berkeley USA Building, Berkeley, CA 94720-3200, USA Fax: 5106439947 Email: gerry@fruitfly.berkeley.edu		
	Sequence recovery method was inverse PCR.		
	Sequence orientation is forward strand relative to 5' end of P element		
	The P element insertion position is base 38 in the 45 bases. This insertion position refers to the first base of the 8 base target recognition sequence.		
FEATURES	Class: transposon-tagged.		
source	Location/Qualifiers		
	1..45		
	/organism="Drosophila melanogaster"		
	/db_xref="taxon:7227"		
	/clone-lib="Drosophila melanogaster EP line"		
	/note="Inverse PCR was performed on Drosophila melanogaster strains each of which contains a single EP transposable element insertion. (The generation of these insertion strains is described in North P. Szabo K. Bailey A, Laverly T, Rehm U, Rubin GM, Weigmann K, Milan M, Benes V, Anstorge W, Cohen SM. 1996. Systematic gain-of-function genetics in Drosophila. Development 6:1049-1057.) The resultant fragment for each strain was directly sequenced to determine the genomic sequence at the site of insertion. Details of the protocols used can be found at http://fruitfly.berkeley.edu/P-distrupt/Inverse-pcr.html."		
BASE COUNT	5 a	20 c	9 g
ORIGIN		11 t	
Query Match	55.6%	Score 10:	DB 94: Length 45;
Best Local Similarity	72.2%;	Pred. No. 1.2e+05;	
Matches 13; Conservative	0;	Mismatches 5;	Indels 0;
Gaps	0;		
OY	1	CAGCGTGGCCATTCCTTC	18
Dd	4	CACCTTGCTCATCCTC	21
RESULT	15		
LOCUS	A1254752	49 bp	mRNA
DEFINITION	q169f07.x1 NC1-GAP_Co14 Homo sapiens cDNA clone IMAGE:1962469 3'		

homolog to SW:WASP\_MOUSE P70315 WISKOT-ALDRIICH SYNDROME PROTEIN  
 HOMOLOG; contains element MSRL repetitive element ;, mRNA sequence.  
 AI254752  
 AI254752.1 GI:3862277  
 EST.  
 human.  
 Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 1 (bases 1 to 49)  
 NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index  
 Unpublished (1997)  
 On Jan 19, 1998 this sequence version replaced gi:2045048.  
 Contact: Robert Strausberg, Ph.D.  
 Tel: (301) 496-1550  
 Email: Robert.Strausberg@nih.gov  
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
 Emmert-Buck, M.D., Ph.D.  
 cDNA Library Preparation: Life Technologies, Inc.  
 cDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LINL at:  
[www-bio.lnl.gov/dbfp/image/image.html](http://www-bio.lnl.gov/dbfp/image/image.html)

Trace considered overall poor quality  
Insert length: 764 Std Error: 0.00  
Seq primer: -40UP from Gibco  
High quality sequence stop: 1.

FEATURES	SOURCE
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```

/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1962469"
/clone_id="NCI_CGAP_Col4"
/tissue_type="moderately-differentiated adenocarcinoma"
/lab_host="DH10B"
/notes="Organ: colon; Vector: pCMV-SPORT6; Site_1: SalI; Site_2: NotI; cloned unidirectionally. Primer: Oligo dT. Average insert size 1.7 kb. Life Technologies catalog #: 11531-019"

```

Query Match	55.6%	Score 10;	DB 44;	Length 45;
Best Local Similarity	100.0%	Pred. No. 1.2e+05;		
Matches	10;	Conservative	0;	Mismatches 0;
			Indels	0;
			Gaps	0;
QY	2	AGCGTCGCC	11	
Db	25	AGCGTCGCC	16	

Search completed: June 18, 2000, 20:38:40  
Job time: 7500 sec

RESULT	15
A1254752/c	
LOCUS	AI254752
DEFINITION	q9t9f07.x1 NC1-CGAP_C014 Homo sapiens CDNA clone IMAGE:1962469 3
	49 bp mRNA EST 02-DEC-1998





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GenCore version 4.5  
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 18, 2000, 19:20:07 ; Search time 49.25 Seconds  
(without alignments)  
91.441 Million cell updates/sec

Title: PCT-US97-18348-1

Perfect score: 18  
Sequence: 1 CACGTCGCCATCCTTC 18

Scoring table: IDENTITY\_NUC  
Gapop 10.0 ; Gapext 1.0

Searched: 311585 seqs, 125096042 residues

Total number of hits satisfying chosen parameters: 391736

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Listing first 45 summaries

Database : N.Geneseq\_36.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	length	DB	ID	Description
1	18	100.0	18	1	V11591	Liposomal bcl-2 an
2	18	100.0	20	1	Q86649	Bcl-2 translation
3	18	100.0	20	1	V19651	Human bcl-2 antisense
4	18	100.0	20	1	V19657	Human bcl-2 trans
5	18	100.0	22	1	Q49816	Bcl-2 antisense ol
6	18	100.0	22	1	Q49817	Bcl-2 antisense ol
7	18	100.0	35	1	Q86644	Bcl-2 translation
8	18	100.0	35	1	V19652	Human bcl-2 oligon
9	16	88.9	17	1	V19660	Human bcl-2 antisense
10	16	88.9	17	1	V19661	Human bcl-2 antisense
11	13	72.2	17	1	V19662	Human bcl-2 antisense
12	13	72.2	17	1	V19659	Human bcl-2 antisense
13	13	72.2	18	1	Q86659	Bcl-2 antisense ol
14	13	72.2	18	1	V19667	Human bcl-2 antisense
15	13	72.2	18	1	V27719	Immunostimulatory
16	13	72.2	18	1	V28181	Antisense oligonuc
17	13	72.2	18	1	V52545	Unmethylated CpG d
18	13	72.2	18	1	V99434	Antisense oligonuc
19	13	72.2	18	1	X18702	Target bcl-2 antis
20	13	72.2	18	1	X27536	Synthetic RNA sequ
21	13	72.2	18	1	X23693	Deletion sequence
22	13	72.2	20	1	V74246	CpG-N motif SOS-OD
23	13	72.2	27	1	T18388	Human bcl-2 forward
24	12.8	71.1	24	1	T72509	Human papillomavir
25	12.4	66.9	45	1	T09247	nACR beta2 subun
26	12.2	67.8	30	1	T15239	Primer #2 for huma
27	12.2	67.8	30	1	V01975	Human myelin oligo
28	11.8	65.6	21	1	T97068	T84 target specif
29	11.8	65.6	21	1	V02110	Human steroid 5-a
30	11.8	65.6	21	1	V02120	Human steroid 5-a
31	11.8	65.6	31	1	V14389	Primer psl60 for c
32	11.8	65.6	35	1	Q99466	Human type I stereo
33	11.8	65.6	40	1	T92291	Breast cancer tiss
34	11.8	65.6	45	1	Q99478	Human type I stereo

C	35	11.8	65.6	45	1	T99818	Primer h5a35 for h
	36	11.8	65.6	48	1	T30818	HDV ribozyme prime
	37	11.8	65.6	48	1	V42395	Reverse PCR primer
	38	11.8	65.6	48	1	V60155	Reverse PCR primer
	39	11.8	65.6	48	1	V70715	Reverse primer SHD
	40	11.6	64.4	28	1	T64675	Human PEC-60-type
	41	11.4	63.3	18	1	V27733	Immunostimulatory
	42	11.4	63.3	18	1	V52559	Unmethylated CpG d
	43	11.4	63.3	18	1	V47681	Unmethylated CpG d
	44	11.4	63.3	20	1	X09086	Tumour necrosis fa
	45	11.4	63.3	25	1	Q48723	NEO gene primer 3.

## ALIGNMENTS

RESULT	1	
ID	V11591	V11591 standard; DNA; 18 BP.
AC	V11591:	
DT	30-JUL-1998	(first entry)
DE	Liposomal bcl-2 antisense polynucleotide.	
KW	Bcl-2; antisense; disease; treatment; cancer; follicular lymphoma;	
KW	leukemia; plasma cell dyscrasia; breast; prostate; colon;	
KW	autoimmune diseases; ss.	
OS	Synthetic.	
OS	Homo sapiens.	
PN	W09814172-A1.	
PD	09-APR-1998.	
PF	03-OCT-1997; U18348.	
PR	04-OCT-1996; US-726211.	
PA	(TEXTA ) UNIV TEXAS SYSTEM.	
PI	Lopez-Berestein G, McDonnell TJ, Tara AM, Tormo M;	
DR	WPI; 98-239841/21.	
PT	Composition comprising oligo:nucleotide anti-sense to Bcl-2 gene -	
PT	useful for, e.g. treatment of Bcl-2 related disease such as	
PT	follicular lymphoma and auto-immune disease	
PS	Claim 4: Page 30; 69pp; English.	
CC	This sequence is a nuclease-resistant p-ethoxy antisense oligonucleotide	
CC	which specifically binds to the translation initiation site of human	
CC	Bcl-2 mRNA. This oligonucleotide can be used in a method to treat Bcl-2	
CC	related disease in humans and animals, e.g. cancer especially follicular	
CC	lymphoma (FL), leukemia, plasma cell dyscrasia, cancer of breast,	
CC	prostate and colon, or autoimmune diseases.	
SQ	Sequence 18 BP; 2 A; 8 C; 4 G; 4 T;	
Query Match 100.0%; Score 18; DB 1; Length 18;		
Best local Similarity 100.0%; Pred. No. 0.63;		
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
QY	1 CACGTCGCCATCCTTC 18	
DB	1 CACGTCGCCATCCTTC 18	
RESULT	2	
ID	Q86649/c	Q86649 standard; DNA; 20 BP.
AC	Q86649:	
DT	27-SEP-1995	(first entry)
DE	Bcl-2 translation initiation site region.	
KW	Anticodon oligomer; antisense oligonucleotide; bcl-2; cancer; therapy;	
KW	lymphoma; programmed cell death; ss.	
OS	Synthetic.	
PN	W09508350-A.	
PD	30-MAR-1995.	
PF	20-SEP-1994; U10725.	
PR	20-SEP-1993; US-124256.	
PA	(REED/) REED J C.	
PI	Reed JC;	
DR	WPI; 95-139394/18.	
PT	Anti-code oligomers which bind to bcl-2 mRNA - for the treatment	

PT of human solid tumours, esp. breast cancer  
 PS Example 12; Page 33; 108pp; English.  
 CC Antisense oligonucleotides were tested for their ability to induce  
 CC programmed cell death (DNA fragmentation) in the human lymphoma cell  
 CC line RS11846. The oligonucleotides are phosphodiester targeted  
 CC against the translation initiation site (Q86550-55) or the 5'-cap  
 CC region (Q8655-58) of human bcl-2 pre-mRNAs. A bcl-2 sense sequence  
 CC (Q86649) was used as a control.  
 SQ Sequence 20 Bp; 4 A; 4 C; 10 G; 2 T;

Query Match 100.0%; Score 18; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 0.64;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAGCGTGGCCCATCCTTC 18  
 |||||||  
 DB 20 CAGCGTGGCCCATCCTTC 3

RESULT 3

VI9651  
 ID VI9651 standard; DNA; 20 Bp.  
 AC VI9651:  
 DT 12-JUN-1998 (first entry)  
 DE Human bcl-2 antisense oligonucleotide 1.  
 KW Antisense oligonucleotide; bcl-2 gene; lymphoma; leukaemia; human;  
 KW cancer; ss.  
 OS Synthetic.  
 OS Homo sapiens.  
 PN US5734033-A.  
 PD 31-MAR-1998.  
 PF 24-MAR-1994; 288692.  
 PR 21-FEB-1992; US-840716.  
 PR 22-DEC-1988; US-288692.  
 PR 24-MAR-1994; US-217082.  
 PA (UYPE-) UNIV PENNSYLVANIA.  
 PI Reed J;  
 DR WPI; 98-229881/20.  
 PT Antisense oligo:nucleotide(s) complementary to BCL-2 mRNA - useful  
 PT for treating cancers, e.g. lymphoma(s) and some leukaemia(s)  
 PS Claim 6; Columns 3-4; 21pp; English.  
 CC This antisense oligonucleotide is complementary to the translation  
 CC initiation site of the human bcl-2 mRNA. The Bcl-2 antisense  
 CC oligonucleotides are phosphorothioate derivatives and can straddle  
 CC strategic sites such as the translation initiation site, donor and  
 CC acceptor splicing sites, or sites for transportation or degradation.  
 CC Blocking translation at such strategic sites prevents the formation of  
 CC a functional bcl-2 gene product. These oligonucleotides may be used for  
 CC treating cancers associated with high levels of bcl-2 gene expression,  
 CC especially lymphomas and some leukaemias.  
 SQ Sequence 20 Bp; 2 A; 10 C; 4 G; 4 T;

Query Match 100.0%; Score 18; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 0.64;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAGCGTGGCCCATCCTTC 18  
 |||||||  
 DB 1 CAGCGTGGCCCATCCTTC 18

RESULT 4

VI9657/c  
 ID VI9657 standard; DNA; 20 Bp.  
 AC VI9657:  
 DT 12-JUN-1998 (first entry)  
 DE Human bcl-2 transcription initiation sense (TI-S) oligonucleotide.  
 KW Antisense oligonucleotide; bcl-2 gene; lymphoma; leukaemia; human;  
 KW cancer; ss.  
 OS Synthetic.  
 OS Homo sapiens.

PN US5734033-A.  
 PD 31-MAR-1998.  
 PF 24-MAR-1994; 288692.  
 PR 21-FEB-1992; US-840716.  
 PR 22-DEC-1988; US-288692.  
 PR 24-MAR-1994; US-217082.  
 PA (UYPE-) UNIV PENNSYLVANIA.  
 PI Reed J;  
 DR WPI; 98-229881/20.  
 PT Antisense oligo:nucleotide(s) complementary to BCL-2 mRNA - useful  
 PT for treating cancers, e.g. lymphoma(s) and some leukaemia(s)  
 PS Disclosure; Column 19; 21pp; English.  
 CC This oligonucleotide is used as a control in measuring DNA fragmentation  
 CC as an indicator of bcl-2 antisense oligonucleotide mediated programmed  
 CC cell death in human lymphoma cells. Bcl-2 antisense oligonucleotides  
 CC straddle strategic sites such as the translation initiation site, donor  
 CC and acceptor splicing sites, or sites for transportation or degradation.  
 CC Blocking translation at such strategic sites prevents the formation of a  
 CC functional bcl-2 gene product. These oligonucleotides may be used for  
 CC treating cancers associated with high levels of bcl-2 gene expression,  
 CC especially lymphomas and some leukaemias.  
 SQ Sequence 20 Bp; 4 A; 4 C; 10 G; 2 T;

Query Match 100.0%; Score 18; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 0.64;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAGCGTGGCCCATCCTTC 18  
 |||||||  
 DB 20 CAGCGTGGCCCATCCTTC 3

RESULT 5

Q49816  
 ID Q49816 standard; DNA; 22 Bp.  
 AC Q49816:  
 DT 03-MAY-1994 (first entry)  
 DE Bcl-2 antisense oligonucleotide.  
 KW Cell death; apoptosis; inhibition; de-inhibition; bcl-2 oncogene;  
 KW expression; myc; ss.  
 OS Synthetic.  
 PN WO9320200-A.  
 PD 14-OCT-1993.  
 PF 02-APR-1993; G00686.  
 PR 02-APR-1993; GB-007275.  
 PR 02-APR-1993; GB-007276.  
 PA (IMCR ) IMPERIAL CANCER RES TECHNOLOGY.  
 PI Evan GI;  
 DR WPI; 93-336908/42.  
 PT Treating tumour cells by de-inhibiting Myc-induced apoptosis -  
 PT esp. by inhibiting expression of the BCL-2 oncogene e.g. with  
 PT cultured cells by expressing BCL-2  
 PT antisense oligo:nucleotide(s), also increasing survival of  
 PS Disclosure; Page 58; 109pp; English.  
 CC A DNA construct comprising the bcl-2 coding sequence under control  
 CC of elements allowing its expression is claimed. Myc-induced cell  
 CC death can be inhibited in cultured cells by expressing bcl-2.  
 CC Myc-induced cell death can be de-inhibited in tumour cells by admin.  
 CC of bcl-2 antisense oligonucleotides.  
 SQ Sequence 22 Bp; 2 A; 12 C; 4 G; 4 T;

Query Match 100.0%; Score 18; DB 1; Length 22;  
 Best Local Similarity 100.0%; Pred. No. 0.64;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAGCGTGGCCCATCCTTC 18  
 |||||||  
 DB 3 CAGCGTGGCCCATCCTTC 20

RESULT 6

049817  
ID 049817 standard; RNA; 22 BP.  
AC 049817;  
DE 03-MAY-1994 (first entry)  
KW Bcl-2 antisense oligonucleotide.  
CC Cell death; apoptosis; inhibition; de-inhibition; bcl-2 oncogene;  
KW expression; myc; ss.  
OS Synthetic.  
PN MO9320200-A.  
PD 14-OCT-1993.  
PF 02-APR-1993; G00686.  
PR 02-APR-1992; GB-007275.  
PR 02-APR-1992; GB-007276.  
PA (IMCR ) IMPERIAL CANCER RES TECHNOLOGY.  
PI Evan GJ.  
DR WPI: 93-336908/42.  
PT Treating tumour cells by de-inhibiting Myc-induced apoptosis -  
PT esp. by inhibiting expression of the BCL-2 oncogene e.g. with  
PT antisense oligo:nucleotide(s), also increasing survival of  
PT cultured cells by expressing BCL-2  
PS Disclosure: Page 58; 109pp; English.  
CC A DNA construct comprising the bcl-2 coding sequence under control  
CC of elements allowing its expression is claimed. Myc-induced cell  
CC death can be inhibited in cultured cells by expressing bcl-2.  
CC Myc-induced cell death can be de-inhibited in tumour cells by admin.  
CC of bcl-2 antisense oligonucleotides.  
SQ Sequence 22 BP; 2 A; 12 C; 4 G; 4 U;

Query Match 100.0%; Score 18; DB 1; Length 22;  
Best Local Similarity 77.8%; Pred. No. 0.64;  
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CACGTCGCCATCCTTC 18  
|||||:|||||:|:|:  
DB 3 CACGTCGCCATCCTTC 20

RESULT 7  
Q86644/c  
ID Q86644 standard; DNA; 35 BP.  
AC Q86644;  
DE 27-SEP-1995 (first entry)  
KW Bcl-2 translation initiation region.  
KW Anticodon oligomer; antisense oligonucleotide; bcl-2; cancer; therapy;  
KW leukemia; lymphoma; solid tumor; breast cancer; autoimmune disease;  
KW ss.  
OS Synthetic.  
PN WO9508350-A.  
PD 30-MAR-1995.  
PF 20-SEP-1994; U10725.  
PR 20-SEP-1993; US-124256.  
PA (REED/J) REED J C.  
PI Reed JC.  
DR WPI: 95-139394/18.  
PT Anti-code oligomers which bind to bcl-2 mRNA - for the treatment  
PT of human solid tumours, esp. breast cancer  
PS Disclosure: Page 13; 108pp; English.  
CC The antisense oligonucleotide Tr-AS (Q86643) straddles the  
CC translation-initiation site in the mRNA coding strand of the human  
CC bcl-2 gene and is complementary to this region. It reduces the  
CC expression of bcl-2 gene product thereby inducing programmed cell  
CC death of certain cancer cells. The corresp. sense bcl-1 sequence  
CC was synthesized for use as a control.  
SQ Sequence 35 BP; 6 A; 8 C; 13 G; 8 T;

Query Match 100.0%; Score 18; DB 1; Length 35;  
Best Local Similarity 100.0%; Pred. No. 0.66;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CACGTCGCCATCCTTC 18  
|||||:|||||:|:|:

DB 30 CACGTCGCCATCCTTC 13  
RESULT 8  
V19652/c  
ID V19652 standard; DNA; 35 BP.  
AC V19652;  
DE 12-JUN-1998 (first entry)  
KW Human bcl-2 oligonucleotide 1.  
KW Antisense oligonucleotide; bcl-2 gene; lymphoma; leukaemia; human;  
KW cancer; ss.  
OS Synthetic.  
PN US5734033-A.  
PD 31-MAR-1998.  
PF 24-MAR-1994; 288692.  
PR 21-FEB-1992; US-840716.  
PR 22-DEC-1988; US-288692.  
PR 24-MAR-1994; US-217082.  
PA (UYPE-) UNIV PENNSYLVANIA.  
PI Reed J.  
DR WPI: 98-229881/20.  
PT Anti-sense oligo:nucleotide(s) complementary to BCL-2 mRNA - useful  
PT for treating cancers, e.g. lymphoma(s) and some leukaemia(s)  
PS Claim 1: Columns 3-4; 21pp; English.  
CC This is a human bcl-2 oligonucleotide based on which an antisense  
CC oligonucleotide complementary to the translation initiation site of the  
CC human bcl-2 mRNA can be constructed. Bcl-2 antisense oligonucleotides  
CC straddle strategic sites such as the translation initiation site, donor  
CC and acceptor splicing sites, or sites for transportation or degradation.  
CC Blocking translation at such strategic sites prevents the formation of a  
CC functional bcl-2 gene product. These oligonucleotides may be used for  
CC treating cancers associated with high levels of bcl-2 gene expression,  
CC especially lymphomas and some leukaemias.  
SQ Sequence 35 BP; 6 A; 8 C; 13 G; 8 T;

Query Match 100.0%; Score 18; DB 1; Length 35;  
Best Local Similarity 100.0%; Pred. No. 0.66;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CACGTCGCCATCCTTC 18  
|||||:|||||:|:|:  
DB 30 CACGTCGCCATCCTTC 13

RESULT 9  
V19660  
ID V19660 standard; DNA; 17 BP.  
AC V19660;  
DE 12-JUN-1998 (first entry)  
KW Human bcl-2 antisense oligonucleotide 6.  
KW Antisense oligonucleotide; bcl-2 gene; lymphoma; leukaemia; human;  
KW cancer; ss.  
OS Synthetic.  
PN Homo sapiens.  
PN US5734033-A.  
PD 31-MAR-1998.  
PF 24-MAR-1994; 288692.  
PR 21-FEB-1992; US-840716.  
PR 22-DEC-1988; US-288692.  
PR 24-MAR-1994; US-217082.  
PA (UYPE-) UNIV PENNSYLVANIA.  
PI Reed J.  
DR WPI: 98-229881/20.  
PT Anti-sense oligo:nucleotide(s) complementary to BCL-2 mRNA - useful  
PT for treating cancers, e.g. lymphoma(s) and some leukaemia(s)  
PS Claim 6: Column 14; 21pp; English.  
CC This antisense oligonucleotide is complementary to the translation  
CC initiation site of the human bcl-2 mRNA. The Bcl-2 antisense  
CC oligonucleotides are phosphorothioate derivatives and can straddle  
CC strategic sites such as the translation initiation site, donor and  
CC acceptor splicing sites, or sites for transportation or degradation.

CC Blocking translation at such strategic sites prevents the formation of  
 CC a functional bcl-2 gene product. These oligonucleotides may be used for  
 CC treating cancers associated with high levels of bcl-2 gene expression,  
 CC especially lymphomas and some leukaemias.  
 SQ Sequence 17 Bp; 2 A; 8 C; 4 G; 3 T;

Query Match 88.9%; Score 16; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 6.9;  
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CAGCGTGGCCATCCTC 16  
 |||  
 DB 2 CAGCGTGGCCATCCTC 17

## RESULT 10

V19661  
 V19661 standard; DNA; 17 Bp.

AC V19661;  
 DT 12-JUN-1998 (first entry)  
 DE Human bcl-2 antisense oligonucleotide 7.  
 KW Antisense oligonucleotide; bcl-2 gene; lymphoma; leukaemia; human;  
 KW cancer; ss.  
 OS Synthetic.  
 OS Homo sapiens.  
 PN US5734033-A.  
 PD 31-MAR-1998.  
 PF 24-MAR-1994; 288692.  
 PR 21-FEB-1992; US-840716.  
 PR 22-DEC-1988; US-288692.  
 PR 24-MAR-1994; US-217082.  
 PA (UYPE-) UNIV PENNSYLVANIA.  
 PI Reed J;  
 DR WPI: 98-229881/20.  
 DT Anti-sense oligo:nucleotide(s) complementary to BCL-2 mRNA - useful  
 PT for treating cancers, e.g. lymphoma(s) and some leukaemia(s)  
 PS Disclosure; Column 14; 21pp; English.  
 CC This antisense oligonucleotide is complementary to the translation  
 CC initiation site of the human bcl-2 mRNA. The Bcl-2 antisense  
 CC oligonucleotides are phosphorothioate derivatives and can straddle  
 CC strategic sites such as the translation initiation site, donor and  
 CC acceptor splicing sites, or sites for transportation or degradation.  
 CC Blocking translation at such strategic sites prevents the formation of  
 CC a functional bcl-2 gene product. These oligonucleotides may be used for  
 CC treating cancers associated with high levels of bcl-2 gene expression,  
 CC especially lymphomas and some leukaemias.  
 SQ Sequence 17 Bp; 1 A; 8 C; 4 G; 4 T;

Query Match 88.9%; Score 16; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 6.9;  
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 GCGTGGCCATCCTTC 18  
 |||  
 DB 1 GCGTGGCCATCCTTC 16

## RESULT 11

V19662  
 V19662 standard; DNA; 17 Bp.

AC V19662;  
 DT 12-JUN-1998 (first entry)  
 DE Human bcl-2 antisense oligonucleotide 8.  
 KW Antisense oligonucleotide; bcl-2 gene; lymphoma; leukaemia; human;  
 KW cancer; ss.  
 OS Synthetic.  
 OS Homo sapiens.  
 PN US5734033-A.  
 PD 31-MAR-1998.  
 PF 24-MAR-1994; 288692.  
 PR 21-FEB-1992; US-840716.

PR 22-DEC-1988; US-288692.  
 PR 24-MAR-1994; US-217082.  
 PA (UYPE-) UNIV PENNSYLVANIA.  
 PI Reed J;  
 DR WPI: 98-229881/20.

PT Anti-sense oligo:nucleotide(s) complementary to BCL-2 mRNA - useful  
 PT for treating cancers, e.g. lymphoma(s) and some leukaemia(s)  
 PS Disclosure; Column 14; 21pp; English.  
 CC This antisense oligonucleotide is complementary to the translation  
 CC initiation site of the human bcl-2 mRNA. The Bcl-2 antisense  
 CC oligonucleotides are phosphorothioate derivatives and can straddle  
 CC strategic sites such as the translation initiation site, donor and  
 CC acceptor splicing sites, or sites for transportation or degradation.  
 CC Blocking translation at such strategic sites prevents the formation of  
 CC a functional bcl-2 gene product. These oligonucleotides may be used for  
 CC treating cancers associated with high levels of bcl-2 gene expression,  
 CC especially lymphomas and some leukaemias.  
 SQ Sequence 17 Bp; 2 A; 8 C; 3 G; 4 T;

Query Match 72.2%; Score 13; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 2.5e+02;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 6 TCGCCATCCTTC 18  
 |||  
 DB 1 TCGCCATCCTTC 13

## RESULT 12

V19659  
 V19659 standard; DNA; 17 Bp.

AC V19659;  
 DT 12-JUN-1998 (first entry)  
 DE Human bcl-2 antisense oligonucleotide 5.  
 KW Antisense oligonucleotide; bcl-2 gene; lymphoma; leukaemia; human;  
 KW cancer; ss.  
 OS Synthetic.  
 OS Homo sapiens.  
 PN US5734033-A.  
 PD 31-MAR-1998.  
 PF 24-MAR-1994; 288692.  
 PR 21-FEB-1992; US-840716.  
 PR 22-DEC-1988; US-288692.  
 PR 24-MAR-1994; US-217082.  
 PA (UYPE-) UNIV PENNSYLVANIA.  
 PI Reed J;  
 DR WPI: 98-229881/20.

PT Anti-sense oligo:nucleotide(s) complementary to BCL-2 mRNA - useful  
 PT for treating cancers, e.g. lymphoma(s) and some leukaemia(s)  
 PS Claim 6; Column 14; 21pp; English.  
 CC This antisense oligonucleotide is complementary to the translation  
 CC initiation site of the human bcl-2 mRNA. The Bcl-2 antisense  
 CC oligonucleotides are phosphorothioate derivatives and can straddle  
 CC strategic sites such as the translation initiation site, donor and  
 CC acceptor splicing sites, or sites for transportation or degradation.  
 CC Blocking translation at such strategic sites prevents the formation of  
 CC a functional bcl-2 gene product. These oligonucleotides may be used for  
 CC treating cancers associated with high levels of bcl-2 gene expression,  
 CC especially lymphomas and some leukaemias.  
 SQ Sequence 17 Bp; 2 A; 8 C; 4 G; 3 T;

Query Match 72.2%; Score 13; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 2.5e+02;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CAGCGTGGCCATC 13  
 |||  
 DB 5 CAGCGTGGCCATC 17

## RESULT 13

086659  
ID 086659 standard; DNA; 18 BP.

AC 27-SEP-1995 (first entry)  
DE bcl-2 antisense oligonucleotide.  
KW Anticodon oligomer; antisense oligonucleotide; bcl-2; cancer; therapy;  
OS chemoresistance; ss.

PH Key Location/Qualifiers  
FT misc\_feature 1..18  
FT /\*tag= a /note= "3'-5' (antisense) sequence"

PN WO9508350-A.  
PD 30-MAR-1995.  
PF 20-SEP-1994; U10725.  
PR 20-SEP-1993; US-124256.  
PA (REED/J) REED J C.  
PI Reed JC;  
DR MPI: 95-139394/18.  
PT Anti-code oligomers which bind to bcl-2 mRNA - for the treatment  
PS of human solid tumours, esp. breast cancer  
PS Example 18; Page 44; 108pp; English.  
CC Reversal of chemoresistance of tumor cells by antisense-mediated  
CC reduction of bcl-2 expression was demonstrated using the  
CC oligonucleotide given in 086659. This is antisense to the first  
CC 6 codons of the bcl-2 ORF.  
SQ Sequence 18 BP; 2 A; 8 C; 4 G; 4 T;

Query Match 72.2%; Score 13; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 2.5e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CAGCGTGGCCCAT 13  
DB 6 CAGCGTGGCCCAT 18

RESULT 14

V19667  
ID V19667 standard; DNA; 18 BP.

AC V19667;  
DR 12-JUN-1998 (first entry)  
DE Human bcl-2 antisense oligonucleotide 13.  
KW Antisense oligonucleotide; bcl-2 gene; lymphoma; leukaemia; human;  
KW cancer; ss.  
OS Synthetic.  
PN Homo sapiens.  
PS US5734033-A.  
PD 31-MAR-1998.  
PF 24-MAR-1994; 288692.  
PR 21-FEB-1992; US-840716.  
PR 22-DEC-1988; US-288692.  
PR 24-MAR-1994; US-217082.  
PA (UYPE-) UNIV PENNSYLVANIA.  
PI Reed J.

DR MPI: 96-229881/20.  
PT Anti-sense oligo:nucleotide(s) complementary to BCL-2 mRNA - useful  
PT for treating cancers, e.g. lymphoma(s) and some leukaemia(s)  
PS Disclosure: Column 23; 21pp; English.  
CC This antisense oligonucleotide is complementary to the translation  
CC initiation site of the human bcl-2 mRNA. The Bcl-2 antisense  
CC oligonucleotides are phosphorothioate derivatives and can straddle  
CC strategic sites such as the translation initiation site, donor and  
CC acceptor splicing sites, or sites for transportation or degradation.  
CC Blocking translation at such strategic sites prevents the formation of  
CC a functional bcl-2 gene product. These oligonucleotides may be used for  
CC treating cancers associated with high levels of bcl-2 gene expression,  
CC especially lymphomas and some leukaemias.  
SQ Sequence 18 BP; 2 A; 8 C; 4 G; 4 T;

Query Match 72.2%; Score 13; DB 1; Length 18;

Best Local Similarity 100.0%; Pred. No. 2.5e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CAGCGTGGCCCAT 13  
DB 6 CAGCGTGGCCCAT 18

RESULT 15

V27719  
ID V27719 standard; DNA; 18 BP.

AC V27719;  
DR 01-OCT-1998 (first entry)  
DE Immunostimulatory oligodeoxyribonucleotide of the invention.  
KW Immunostimulatory; oligodeoxyribonucleotide; ODN;  
KW unmethylated CpG dinucleotide; activate; lymphocyte; immune response;  
KW Th2; Th1; cytokine; treatment; prevention; asthma; autoimmune disease;  
KW desensitisation therapy; artificial adjuvant; antibody generation; ss.  
OS Synthetic.  
PN WO9618810-A1.  
PD 07-MAY-1998.  
PF 30-OCT-1997; U19791.  
PR 30-OCT-1996; US-738652.  
PA (IOWA) UNIV IOWA RES FOUNDD.  
PI Kline JN, Krieg AM;  
DR MPI: 98-272127/24.

PT New immunostimulatory nucleic acid molecules - which contain at  
PT least one unmethylated CpG dinucleotide, used for treating e.g.  
PT tumours, infections or autoimmune disease  
PS Disclosure: Page 49; 109pp; English.  
CC V27641-751 represent immunostimulatory oligodeoxyribonucleotides (ODNs)  
CC of the invention. The ODNs contain at least one unmethylated CpG  
CC dinucleotide, and have the formula:  
CC 5' N1X1GxN2 3', where at least one nucleotide separates consecutive  
CC CpGs, X1 is adenine, guanine, or thymine, X2 is cytosine or thymine, N1 is  
CC any nucleotide and N1+N2 is 0-26 bases with the provision that N1 and N2  
CC does not contain a CCGG tetramer or more than one CCG or CCG trimer OR  
CC 5' NX1X2CGX3X4N 3', where at least one nucleotide separates consecutive  
CC CpGs, X1 and X2 are selected from GpT, GpG, GpA, APT and APA, X3 and X4  
CC are selected from Tpt or Cpt, N1 is any nucleotide and N1+N2 is 0-26  
CC bases with the provision that N1 and N2 does not contain a CCGG tetramer  
CC or more than one CCG or CCG trimer.  
CC The ODNs activate lymphocytes in a subject and redirect a subject's  
CC immune response from a Th2 (e.g. by inducing monocytic cells and  
CC other cells to produce Th1 cytokines, including IL-12, IFN-gamma and  
CC GM-CSF). The ODNs can be used to treat or prevent an asthmatic disorder,  
CC autoimmune diseases, in desensitisation therapy, as an artificial  
CC adjuvant during antibody generation in a mammal such as a mouse or a  
CC human.  
SQ Sequence 18 BP; 2 A; 8 C; 4 G; 4 T;

Query Match 72.2%; Score 13; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 2.5e+02;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CAGCGTGGCCCAT 13  
DB 6 CAGCGTGGCCCAT 18

Search completed: June 18, 2000, 20:48:51  
Job time: 5324 sec





GenCore version 4.5  
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 18, 2000, 18:48:20 ; Search time 491.24 Seconds

(without alignments)  
-35.645 Million cell updates/sec

Title: PCT-US97-18348-1  
Perfect score: 18  
Sequence: 1 CAGCGTGCATCCTTC 18

Scoring table: IDENTITY\_NUC  
Gapop 10.0, Gapext 1.0

Searched: 882769 seqs, -486395729 residues

Total number of hits satisfying chosen parameters: 285916

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Listing first 45 summaries

Database :

GenEmbl:\*  
1: gb\_ba1:\*  
2: gb\_ba2:\*  
3: gb\_cm:\*  
4: gb\_ov:\*  
5: gb\_pac:\*  
6: gb\_ph:\*  
7: gb\_pl1:\*  
8: gb\_pl2:\*  
9: gb\_pl3:\*  
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11: gb\_pr3:\*  
12: gb\_ro:\*  
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47: em\_hcg2:\*  
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49: em\_hcg4:\*  
50: em\_hcg5:\*  
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52: gb\_pl4:\*  
53: gb\_hcg9:\*  
54: gb\_hcg10:\*  
55: gb\_hcg11:\*  
56: gb\_hcg12:\*  
57: gb\_hcg13:\*  
58: gb\_hcg14:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	18	100.0	20	AR052603	AR052603 Sequence
2	18	100.0	20	AR052609	AR052609 Sequence
3	18	100.0	20	I96082	I96082 Sequence 1
4	18	100.0	20	I96088	I96088 Sequence 7
5	18	100.0	22	A76123	A76123 Sequence 3
6	18	100.0	22	A76124	A76124 Sequence 4
7	18	100.0	35	AR052604	AR052604 Sequence 2
8	18	100.0	35	I96083	I96083 Sequence 2
9	16	88.9	17	I96091	I96091 Sequence 10
10	16	88.9	17	I96092	I96092 Sequence 11
11	14	77.8	29	CHRC2A101	K02260 Chicken alp
12	13	72.2	17	I96090	I96090 Sequence 9
13	13	72.2	17	I96093	I96093 Sequence 12
14	13	72.2	18	AR052619	AR052619 Sequence
15	13	72.2	18	AR052624	AR052624 Sequence
16	13	72.2	18	I96098	I96098 Sequence 17
17	13	72.2	27	AR004426	AR004426 Sequence
18	13	72.2	27	I43661	I43661 Sequence 13
19	13	72.2	27	I86720	I86720 Sequence 8
20	13	72.2	25	I09491	I09491 Sequence 5
21	11.8	65.6	45	I12347	I12347 Sequence 36
22	11.8	65.6	45	I70250	I70250 Sequence 36
23	11.8	65.6	48	AR021008	AR021008 Sequence
24	11.8	65.6	48	AR043423	AR043423 Sequence
25	11.8	65.6	48	AR062338	AR062338 Sequence
26	11.8	61.1	31	AR041195	AR041195 Sequence
27	10.8	60.0	17	I46922	I46922 Sequence 15
28	10.8	60.0	21	A98631	A98631 Sequence 25
29	10.8	60.0	26	E11773	E11773 Synthetic
30	10.8	60.0	35	I15202	I15202 Sequence 19
31	10.8	60.0	35	I15205	I15205 Sequence 22
32	10.8	60.0	36	A26295	A26295 Subtilisin
33	10.8	60.0	36	A26296	A26296 Subtilisin
34	10.8	60.0	36	A26927	A26927 Oligonucleo
35	10.8	60.0	36	A26928	A26928 Oligonucleo
36	10.8	60.0	36	I43384	I43384 Sequence 13
37	10.8	60.0	36	I43385	I43385 Sequence 14
38	10.6	58.9	20	A51364	A51364 Sequence 6
39	10.6	58.9	20	AR066873	AR066873 Sequence
40	10.6	58.9	12	MMHNF113B	X66552 Mus musculu
41	10.6	58.9	33	AR008552	AR008552 Sequence
42	10.6	58.9	38	AR029330	AR029330 Sequence
43	10.6	58.9	42	AR008961	AR008961 Sequence
44	10.6	58.9	42	I24415	I24415 Sequence 10
45	10.6	58.9	50	A25419	A25419 Oligonucleo

#### ALIGNMENTS

RESULT 1  
AR052603 AR052603 20 bp DNA PAT 29-SEP-1998  
LOCUS Sequence 1 from patent US 5831066.  
DEFINITION  
ACCESSION AR052603 GI:5975967  
VERSION AR052603.1  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE Unclassified.  
AUTHORS 1 (bases 1 to 20)  
TITLE Regulation of bcl-2 gene expression  
JOURNAL Patent: US 5831066-A 1 03-NOV-1998;  
FEATURES Location/Qualifiers  
source 1..20  
/organism="unknown"  
BASE COUNT .2 a 10 c 4 g 4 t  
ORIGIN

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Best Local Similarity 100.0%; Pred. No. 41;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAGCGTGGCCCATCCTTC 18  
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Db 1 CAGCGTGGCCCATCCTTC 18

RESULT 2  
AR052609/c AR052609 20 bp DNA PAT 29-SEP-1998  
LOCUS Sequence 7 from patent US 5831066.  
DEFINITION  
ACCESSION AR052609  
VERSION AR052609.1 GI:5975973  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE Unclassified.  
AUTHORS 1 (bases 1 to 20)  
TITLE Regulation of bcl-2 gene expression  
JOURNAL Patent: US 5831066-A 7 03-NOV-1998;  
FEATURES Location/Qualifiers  
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Db 20 CAGCGTGGCCCATCCTTC 3

RESULT 3  
196082 20 bp DNA PAT 01-DEC-1998  
LOCUS Sequence 1 from patent US 5734033.  
DEFINITION  
ACCESSION 196082 GI:3940552  
VERSION 196082.1  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE Unclassified.  
AUTHORS 1 (bases 1 to 20)  
Reed,J.

TITLE Antisense oligonucleotides inhibiting human bcl-2 gene expression  
JOURNAL Patent: US 5734033-A 1 31-MAR-1998;  
FEATURES Location/Qualifiers  
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RESULT 4  
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LOCUS Sequence 7 from patent US 5734033.  
DEFINITION  
ACCESSION 196088  
VERSION 196088.1 GI:3940558  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE Unclassified.  
AUTHORS 1 (bases 1 to 20)  
TITLE Antisense oligonucleotides inhibiting human bcl-2 gene expression  
JOURNAL Patent: US 5734033-A 7 31-MAR-1998;  
FEATURES Location/Qualifiers  
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Db 20 CAGCGTGGCCCATCCTTC 3

RESULT 5  
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LOCUS Sequence 3 from Patent WO9320200.  
DEFINITION  
ACCESSION A76123  
VERSION A76123.1 GI:6088259  
KEYWORDS  
SOURCE unidentified.  
ORGANISM unidentified.  
REFERENCE Unclassified.  
AUTHORS 1 (bases 1 to 22)  
TITLE MODIFIED CELLS AND METHOD OF TREATMENT  
JOURNAL Patent: WO 9320200-A 14-OCT-1993;  
IMP CANCER RES TECH (GB); EVAN GERARD IAN (GB)  
FEATURES Location/Qualifiers  
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BASE COUNT 2 a 12 c 4 g 4 t  
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Query Match 100.0%; Score 18; DB 5; Length 22;  
Best Local Similarity 100.0%; Pred. No. 41;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACCGTGGCCCATCCTTC 18  
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Db 3 CACCGTGGCCCATCCTTC 20

RESULT 6  
A76124 22 bp DNA PAT 19-OCT-1999  
LOCUS  
DEFINITION Sequence 4 from Patent WO9320200.  
ACCESSION A76124  
VERSION A76124.1 GI:5088260  
KEYWORDS  
SOURCE unidentified.  
ORGANISM unidentified.  
REFERENCE 1 (bases 1 to 22)  
AUTHORS Evan,G.I.  
TITLE MODIFIED CELLS AND METHOD OF TREATMENT  
JOURNAL Patent: WO 9320200-A 14-OCT-1993;  
IMP CANCER RES TECH (GB); EVAN GERARD IAN (GB)  
FEATURES  
source 1. .22  
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BASE COUNT 2 a 12 c 4 g 4 t

ORIGIN

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Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 3 CACCGTGGCCCATCCTTC 20

RESULT 7  
AR052604 35 bp DNA PAT 29-SEP-1999  
LOCUS AR052604  
DEFINITION Sequence 2 from patent US 5831066.  
ACCESSION AR052604  
VERSION AR052604.1 GI:5975968  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 35)  
AUTHORS Reed,J.C.  
TITLE Regulation of bcl-2 gene expression  
JOURNAL Patent: US 5831066-A 2 03-NOV-1998;  
FEATURES  
source 1. .35  
/organism="unknown"

BASE COUNT 6 a 8 c 13 g 8 t

ORIGIN

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Best Local Similarity 100.0%; Pred. No. 40;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACCGTGGCCCATCCTTC 18  
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Db 30 CACCGTGGCCCATCCTTC 13

RESULT 8  
196083 35 bp DNA PAT 01-DEC-1998  
LOCUS 196083/c  
DEFINITION Sequence 2 from patent US 5734033.

ACCESSION 196083  
VERSION 196083.1 GI:3940553  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 35)  
AUTHORS Reed,J.  
TITLE Antisense oligonucleotides inhibiting human bcl-2 gene expression  
JOURNAL Patent: US 5734033-A 2 31-MAR-1998;  
FEATURES  
source 1. .35  
/organism="unknown"

BASE COUNT 6 a 8 c 13 g 8 t

ORIGIN

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Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 30 CACCGTGGCCCATCCTTC 13

RESULT 9  
196091 17 bp DNA PAT 01-DEC-1998  
LOCUS 196091  
DEFINITION Sequence 10 from patent US 5734033.  
ACCESSION 196091  
VERSION 196091.1 GI:3940561  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Reed,J.  
TITLE Antisense oligonucleotides inhibiting human bcl-2 gene expression  
JOURNAL Patent: US 5734033-A 10 31-MAR-1998;  
FEATURES  
source 1. .17  
/organism="unknown"

BASE COUNT 2 a 8 c 4 g 3 t

ORIGIN

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Best Local Similarity 100.0%; Pred. No. 44e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACCGTGGCCCATCCT 16  
|||||

Db 2 CACCGTGGCCCATCCT 17

RESULT 10  
196092 17 bp DNA PAT 01-DEC-1998  
LOCUS 196092  
DEFINITION Sequence 11 from patent US 5734033.  
ACCESSION 196092  
VERSION 196092.1 GI:3940562  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Reed,J.  
TITLE Antisense oligonucleotides inhibiting human bcl-2 gene expression  
JOURNAL Patent: US 5734033-A 11 31-MAR-1998;  
FEATURES  
source 1. .17  
/organism="unknown"



Db 6 CACGCTGCCCAT 18

RESULT 15

AR052624 18 bp DNA PAT 29-SEP-1999  
 LOCUS AR052624  
 DEFINITION Sequence 24 from patent US 5831066.  
 ACCESSION AR052624  
 VERSION AR052624.1 GI:5975988  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 18)  
 AUTHORS Reed,J.C.  
 TITLE Regulation of bcl-2 gene expression  
 JOURNAL Patent: US 5831066-A 24 03-NOV-1998;  
 FEATURES  
 source 1.18  
 BASE COUNT 2 a 8 c 4 g 4 t  
 ORIGIN

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 Best Local Similarity 100.0%; Pred. No. 1.5e+04;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 CACGCTGCCCAT 13  
 Db 6 CACGCTGCCCAT 18

Search completed: June 18, 2000, 20:47:01  
 Job time: 7121 sec

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